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SUMMARY:

An Information Technology professional possessing more than 18-years overall experience in Software Architecture, Design and Development including 12-years of Java Swing, Java 3D, OpenGL, Java Native Interface (JNI), Java Database Connectivity (JDBC) and Java Web Services API packages (i.e. utilizing SOAP and XML technologies), C#.NET, ASP.NET, JSON, JavaScript, AJAX and SQL development experience, 10-years of Java/J2EE utilizing the 10-years of experience developing C/C++ applications, 10-years of integration, testing and development experience. He also has experience developing Python applications, Active Perl scripts and C/C++ applications in Microsoft Windows, UNIX and Linux environments using sockets and the Win32 API. 10-years of experience building with Adobe Experience Manager / CQ5 applications. He is knowledgeable in all aspects of software engineering to include requirements analysis, design, code, integration, testing, maintenance and deployment. He also has extensive knowledge of the full lifecycle software development process to include QA testing, UAT, production deployments, technical support, training and documentation in small and large-scale development environments.

SOFTWARE LANGUAGES:

Java Swing API, Java 3D API, Java Native Interface (JNI), Angular JavaScript, Node JS, Java Database Connectivity (JDBC), Java Web Services using SOAP and XML, Maven, SQL, OpenGL, 2D and 3D, SAP, Java 2D/3D map development, GIS, ArcView and data plotting software. SharePoint Server 2007/2013, Designed and implemented solutions leveraging Adobe AEM sites. Experience implementing and working with Adobe AEM/CQ, experience with migrating large volumes of content from a CMS into AEM/CQ. Joomla 2.5.9 administration & web portal development experience; Microsoft CRM 4.0 expertise, IBM WebSphere Commerce 6.0, Reporting Services, Java, Experience with Semantic Web technologies (e.g. RDF, RDF Databases, Reasoning Engines). C#.NET, CygWin (cross-platform development environment), Visual Studio 2012/2013, MySQL, Sybase SQL, TCL/TK, Python 6, Perl 5, UNIX “C” shell scripting, Microsoft SQL Server 2000, ODBC/JDBC database interfaces, Linux Kernel configuration/programming and Oracle RDMS. Software Development Experience: 5 Years (C/C++, Image Processing, OpenCV, JUCE, QT, MATLAB, OpenGL).

TOOLS:

JIRA, Confluence, DirextX API, Mercury Testing Tool, Quality Center,

QTP, Test Director, Microsoft .NET Framework 1.1/2.0/3.0,3.5,4.0, MS Word,

Excel, PowerPoint, Exceed (a multiplatform PC-to-Enterprise software

suite), Frame Maker, WordPerfect, Sigma Plot (a scientific

software package), Scientific Analysis Software (SAS), Rational Rose

Design tool, Purify memory leak debugger tool, NetBeans IDE, Rational

(IDE), JDK, Swing, Java 3D development, AWT, Apache web server,

Tomcat. Experienced in MATLAB & Simulink, including application and GUI development, interfacing MATLAB with databases and websites. Experience developing applications, templates, and components for the Adobe AEM/CQ product (WCM, DAM, CQSE, CRX). Experience customizing workflows and integration with other enterprise systems. Exposure to AEM 5.x sites. Adobe CQ5/EMC /WordPress, Office 365 ProPlus installations, configurations, document editing/processing and client/server deployments, etc.

PROFESSIONAL EXPERIENCE:

V2 Innovations, Inc/General Electric Corporation

Senior Software Developer

August 2021 – August 2023

Day-to-day responsibilities include software design, implementation, integration and testing for an employee compensation and award web-based PeopleSoft application.

* Object-oriented design and programming support
* Experience implementing DevOps organizational practices in a traditional development environment using Agile Scrum as a vehicle to introduce new best practices.
* Source control/version management using the bitbucket/Git open-source GUI tool
* The JIRA issue tracking product was used for bug tracking and agile project management
* Attended daily scrum meetings for reporting ongoing project status, impediments and proposed solutions.
* Developed build and release management system using Jenkins
* Apache and WebLogic DevOps integration
* Java (J2ee, Spring) development, bug fixes and code enhancements
* OIDC, SAML integrations
* Service Oriented Architecture Design
* Oracle, MySQL, MS SQL backend integration & development
* JQuery, Bootstrap, React JS (optional), Node JS (optional)
* HTML5, CSS3
* Cloud Exposure [Azure, AWS, OCI]
* PeopleSoft integration experience

Hull IT Solutions & Services, LLC

Senior Software Engineer

August 2019 – July 2021

Day-to-day responsibilities include software design, development, testing and Liferay integration for the EFMP & Me web-based portal. The EFMP & Me application will guide users through a comprehensive wizard/questionnaire about their role(s)/needs and provide users with customizable checklists of information and links to content, forms and other online resources. The application leverages data and content from existing sources such as the Education Directory for Children with Special Needs, Military installations, Military OneSource and other users.

* Java & Liferay software web design/development and support.
* Designing of Content Management System which involved layout, CSS and Service Catalog work. Utilized the Service Now Service Catalog for users to create Service Requests and Service Items. Also worked on integrating ServiceNow with external SOAP and REST based web services.
* User interface/presentation layer front-end development using CSS, HTML and Angular 8
* The Angular framework allowed the creation of a modern User Interface, customize the look-n-feel of the application and create an application that was responsive for mobile web browsing as well as desktop users.
* Liferay 7.0 and Node Express leveraged for the business layer
* The Node Express middleware platform was used to serve APIs to the presentation layer
* Node Express was also utilized as an API Gateway to provide a secure entry into the Liferay Web Services.
* The API Gateway aggregated data from various Liferay microservices and cache data to improve site performance after performing authentication/authorization checks on the requesting clients.
* The Service layer utilized Liferay’s local services to interact with the Data Layer to retrieve and store data
* The Data layer utilized MySQL for relational data storage.
* Liferay was leveraged to retrieve/store data and to connect to a LDAP directory that was used to maintain user roles for EFMP & Me content administration.
* The Apache Web Server hosted the EFMP & Me User Interface and Node Express was in an AWS cloud environment
* Provided web portal design and development support for the EFMP & Me web portal application
* Object-oriented design and programming support
* Experience implementing DevOps organizational practices in a traditional development environment using Agile Scrum as a vehicle to introduce new best practices.
* Source control/version management using the bitbucket/Git open-source GUI tool
* The JIRA issue tracking product was used for bug tracking and agile project management
* Attended daily scrum meetings for reporting ongoing project status, impediments and proposed solutions.
* Developed build and release management system using Jenkins

• Active Secret security clearance

Data Intelligence, Inc, Marlton, NJ

Senior Software Engineer

January 2019 – July 2019

* Implementing, integrating and supporting Okta's cloud SSO and enterprise SaaS technologies into complex IT environments across heterogeneous operating environments for SPAWAR customer.
* Provide well-thought out and reliable direction, both in technical and non-technical terms, to help SPAWAR customers integrate, deploy and maintain the Okta service.
* Java, CSS, HTML web design/development
* End-to-end ownership of customer issues, including initial troubleshooting, identification of root cause and issue resolution.
* Internal and external point of contact on customer escalations and ensuring customer issues are resolved as expediently as possible.
* Collect information and document bugs with Engineering for product issues that are impacting customers.
* Create process or troubleshooting documentation in the support knowledge base.
* System administration of core Microsoft product stack, including Windows Server, Windows Workstation, Active Directory, DNS, DHCP, Group Policies and IIS.
* Supporting Identity Access Management solutions, LDAP, SSO, SAML, REST APIs, and WS Federation
* Supporting Cloud Applications such as Office 365, Google Apps, Salesforce, Slack, Workday, NetSuite, Box, etc.
* Active Secret security clearance

Isolutions, LLC/Defense Logistics Agency, Burke, VA

Senior WebSphere Commerce Developer

January 2018 – December 2018

* Build, Configure the   **WebSphere Commerce V7**, DB2 Client, applying latest fix/feature packs FEP6, commerce   instance creation, remote Http server setup, and common administrative tasks for the Fedmall sustainment project.
* Responsibilities includes the design, implementation and generation of Fortify/Web inspect reporting for security risk portfolio tracking using Agile Management tools JIRA and Confluence.
* Creation of metrics and risk assessments in support of FedMall Defense Logistics Agency (DLA) initiatives.
* Provided comprehensive status reports, project updates and ongoing security analysis, issue tracking, management and resolution. Communicated with the DLA subcontractors/partners and risk management initiatives.
* Maintenance of the **WebSphere** Application Servers (WAS) on AIX LINUX platforms and setting up the development, testing and staging environment for the ongoing application development.
* Leveraged Agile methodologies with daily Scrum meetings, project updates and impediments.
* Managing build software releases, code deployments and maintenance tasks via 2-week sprints.
* WCBD is the   **WebSphere   Commerce**   **Build and Deploy framework.** Manage build and deploy of code for multiple releases of code from CSV.
* Customized **WCBD ANT** script to deploy various code as per project requirements.
* Setup WCBD Search script to move Search folder preprocess and conf folder configuration files to test, Staging and production cluster servers.
* Setup WCBD production configuration to ftp all static content to IHS server.
* Create caching strategy document, implement **caching**, perform tuning and validation using caching monitor.
* Create cache specific test scenarios; automate testing using RPT for different users with fined grained access to site.
* Enabled Performance Monitoring Service (PMI) to collect JVM statistics and garbage collection data for monitoring the heap and physical memory in WebSphere.
* Setup **Nagios** core 3.5 with WebSphere**, IHS, and DB2 plugins.**
* Work with DBA team to automate DB maintenance tasks.
* Fortify & Web inspect security scans of baseline source code, analysis, reporting and updating JIRA tickets.
* Augmentation of staff to support the critical deliverable and successful completion of a risk portfolio reporting using JIRA and Confluence tools.

Internal Computer Services, Inc/Department of Veteran Affairs, Richmond, VA

Senior Web Developer

April 2012 – January 2018

Day-to-day responsibilities include installation, configuration and Joomla web portal software development

for the enhancement of the Community Engagement Platform (CEP). The CEP enhancement work provided

user self-identification and Joomla web content customization based on the groups and sub-groups with which

a user is associated; an interactive experience for the user and members of VA’s health informatics community, claims and billing departments to create and comment on other user content in the form of blogs, video, and text; the ability for an interactive timeline, presenting the evolution and history of health informatics; and dynamic multimedia capabilities to allow video responses to be shared as comments amongst the department of veteran affairs healthcare community.

* The Joomla plug-in components and extensions primarily consisted of K2, Kunena Forum, VIDEOFLOW, JComments and Community Builder 1.8.
* The CEP enhancement utilized the K2 component-article infrastructure to enable healthcare informacist caregivers and other VA personnel to create “tags” that label or categorize content using simple keywords. The tagging was a feature that users could set to be “active” or “inactive” within the administration parameters.
* Developed websites using AEM/CQ, including the creation, configuration and integration of templates, components, dialogs, widgets and workflows.
* Setting up a new instance via AWS and implemented the open source framework Shiro security in the system for user sign on and roles management.
* Implemented a cloud-based web portal analytics tool (Insight) using Angular JS, Node JS and HTML5.
* Implemented and integrated code using a charting library written in pure JavaScript/Angular JS to add interactive charts to the cloud-based web portal application.
* Designed and improved internal development methodologies around Adobe AEM solution.
* Implemented a timeline enhancement to the CEP using JavaScript Object Notation (JSON)/Hypertext Preprocessor (PHP)/JQUERY to develop an application that utilized Google Docs data storage service and was deployed into two environments – Joomla based CEP staging and production.
* Designed and developed a web-based administration and reporting tool using Java, Maven, Spring, Hibernate with Annotations, MySQL, JSP, CSS, and Ajax.
* DevOps exposure with Linux Administration, Cloud, Automated Deployment, EC2 and Scaling experience. Responsive web design & development.
* Semantic web (OWL, RDF, SPARQL), Web (HTML, JavaScript, Servlets).
* Bootstrap Google Material Design
* Leveraged Agile methodologies with daily Scrum meetings, project updates and impediments.
* Managing build software releases, code deployments and maintenance tasks via 2-week sprints.
* Develop digital consumer experiences based on foundation of the Adobe CQ/AEM product suite, including CQ/AEM, CRX, CQ WCM and DAM.
* Also supported another Web Developer with a video capability that utilized VIDEOFLOW, JComments, and Kunena forum components to provide Video-centered testimonials and discussions via the CEP Joomla web portal. These video capabilities enable VA healthcare personnel and users to post comments and ideas about a video and allowed a designated administrator or moderator to store/moderate comments and discussions.
* Senior Web Developer responsible for Adobe CQ5 template and component development, initial systems architecture and migration of content from EMC2 Documentum to Adobe CQ5.
* Responsible for technical RA during CMS vendor analysis.
* Implemented application / content architecture in CQ5 to facilitate multiple product, brand, language and region websites off a common codebase.
* Provide CQ5 training to B2B partners (onsite & via video conference)
* Audio/Video production
* Technology point of contact for B2B partners in regulated markets
* Provide CQ5 training to content teams across various locations (London / Tel-Aviv / China).
* Involved in the migration of Content Management Systems, the complete refactoring of the migrated websites’ codebase (HTML / CSS / JavaScript), the development of functionality within Adobe CQ 5.3 and 5.5 based on various business cases.
* Developed build and release management system using Maven, Cruise Control, Jenkins, Puppet and CVS.
* Experience implementing Devops organizational practices in a traditional development environment using Scrum as a vehicle to introduce new best practices.
* Implemented code enhancements/updates for the mobile applications to support the web-based admin portal, which is a hybrid AngularJS web application running on top of a thin native shim for iOS and Android.
* Joomla Plug-in development, configuration and deployment to provide enhanced blogging capabilities for Healthcare Informatics community, claims and billing departments within the Department of Veteran Affairs.
* JavaScript development to implement enhancements to the Joomla web portal UI, timeline component

and integration of Google docs for calendars.

* MySQL database installation, configuration, server/local storage and administrative activities
* Configuration and deployment tasks for implementing video streaming to the Healthcare Informatics Community.
* Created documentation for user and administration guide for usage and administration of the CEP Joomla web portal.
* Translated marketing and web site needs into AEM specific recommendations and solutions.
* Leverage AEM, other state-of-the-art technologies, and integration patterns to solve cross-departmental challenges.

General Dynamics/Chemring Detections Systems, Charlotte, NC

Senior Software Engineer

October 2011 – April 2012

Day-to-Day responsibilities included C#, OO Design, Windows Desktop Applications development, Windows 7 Embedded OS, multithreaded application development, WPF and Windows Form design,

and automated unit testing. UML design tool (Visual Paradigm), XML, C/C++, configuration management tools. Perform ongoing static application code analysis in a process-oriented development environment.

Software Development & Design tasks include the following:

- Object oriented design

- Windows UI design

- C++ and C#.NET development

- Multithreaded application development

- Practical experience with Devops techniques and utilization of the MATLAB API.

- Mil-Std documentation and code analysis in a Windows XP development environment.

- Exposure to hardware and SW integration/development

Service Source International, San Francisco, CA

Senior Software Developer/Contractor

February 2010 – June 2011

* Responsible for developing web-based applications and data loaders (i.e. Tools-on-Top) utilizing C# and ASP.NET, JavaScript, AJAX, extJS for CRM-based enterprise backend systems to include development, QA and production environments. Utilized Microsoft CRM 4.0, MS SQL Server 2008, MS Reporting Services, Excel APIs 2003-2007, Internet Information Services (IIS) and third-party PDF-to-Excel conversion toolkits.
* Lead technology teams to build and maintain web applications using Adobe’s Experience Manager CMS to include site architecture, custom components, workflow development, Digital Asset Management (DAM).
* Utilized SharePoint 2010 to configure and integrate with MS SQL Server 2010 Reporting Services to generate daily reports.
* Migration of documents from legacy SSI Document Management System to a new OnBase Solution
* Design, development and architected the old SSI DMS to a new Onbase platform to support all SSI application users.
* Evaluated the performance of the storage, deletion and access functions throughout the migration of documents to SharePoint.
* Created and integrated content-driven applications on top of AEMs core platform and integrate with E-commerce solutions and search engines.
* Worked with the head of the creative department to streamline processes in the existing CMS (EMC2 Documentum).
* Refactored documented templates to provide standards compliant / semantic output of HTML.
* To support new B2B ventures, I implemented a process whereby white label websites could easily be created / deployed within Documentum.
* Leveraged Agile methodologies with daily Scrum meetings, project updates and impediments.
* Managing build software releases, code deployments and maintenance tasks via 2-week sprints.
* Developed using Eclipse, Java, JavaScript, Web 2.0, and Semantic Web technologies.
* Application Development Template- ASP.Net application that demonstrates Service Source International’s (SSI) preferred method of developing applications. Used as a guide for new programmers and contractors. I wrote this application based upon a consensus of our developers on how we wanted applications to be written for our organization. This template and its supporting documentation were posted on a Microsoft SharePoint 2010 web site that is used as a reference for SSI’s application developers located statewide.
* As a contractor, developed a web-based Data Extractor tool which provided a platform to extract data from either PDF or Excel documents, create a quote record, attach the source document to quote record, and when necessary create new assets in the Microsoft CRM (“CRM”). The data extractor tool consisted of a User Interface (UI) design that utilizes Ext-JS (Extended JavaScript), an open source JavaScript library for building interactive web applications using techniques such as AJAX, DHTML and DOM scripting.
* Participated in the design, development, testing, integration, deployment, maintenance, documentation and operations of enterprise-wide SSI applications and tools used by various client teams located in the US and globally. Managed and developed process improvements for both the solutions and operation teams.
* Facilitated and managed development, stage and production support issues and tickets.

Neoris Consulting, Inc/Lowes Companies, Inc, Mooresville, NC

Software Developer/Contractor

November 2009 – January 30, 2010

* Responsible for providing quality software development supporting the Lowe’s CPO M&E initiative using PMP, technical analyst, Java, C, JSP web development, Jasper reports, DB2 SQL development and WebSphere configuration and deployment skills in a J2EE windows environment. Microsoft CRM 4.0 expertise utilizing workflows and data warehousing.
* As a contractor provided updates and enhancements to a Java web-based application utilized for financial management and reporting purposes. The application was used to manage and track Lowes product sales, invoicing, order management and budget assessments in various remote store locations and at the Lowes headquarters facility. Utilized Java Server Pages (JSP), Java web services invocation, JDBC SQL calls for accessing and executing queries and generated web-based and PDF formatted reports via Jasper Reports. Utilized an open source tool (i.e. iReport) to compile and deploy the jasper reports.
* Developed Java code using the Eclipse rational developer’s platform and utilized CVS for source code control and versioning. The Java code interfaced with a DB2 database backend using various complex SQL queries, stored procedures and invoked web-service calls to a remote data service provider application called the time trade tool.

Extensively worked on both Enterprise and Community edition of MULE ESB. Had an experience working MULE API manager and RAML for an iOS/Android application involving software maintenance/support.

Developed custom logging framework for mule ESB application and analysis was made

utilizing log stash, elastic search and Kibana tools.

Implemented clustering and throttling concepts for mule based solutions.  
Formulated build and deployment process for mule project for both on-premise and cloud using Maven and cloud hub CLI tool.  
Had an experience in development and deploying mule project on cloud hub and mule MMC.  
Used MUnit for mocking and unit testing mule flows.  
Had experience in using the enterprise security, notifications features provide by mule.  
Good hands on experience using mule connectors like FTP, FILE, SFTP, IMAP, Salesforce, NetSuite, etc., as a part of integration usage.

Good hands on programming experience in developing web-based applications and Client-

Server technologies using Java, J2EE, JSP, Servlets, spring, JDBC, JMS and JNDI.  
Hands-on experience in complete software development life cycle and software engineering and strong in development of specifications, functional, and technical requirements, and process flows with extensive experience in using OOAD and concepts.  
Experienced with Model View Controller (MVC) Architecture and ZK frameworks.  
Experienced in Cutting Edge Technologies like MULE ESB, WSO2 ESB, HornetQ, Hazelcast, ActiveMQ, XML and Log4j with good experience in Developing and Deploying web based application on Application Servers like Web Sphere1.7, J Boss6.  
Tightly integrated the Mule ESB with different application.  
Integrated open flash charts components in the application to generate graphs for analytics.

Hands on experience in Web-Services in publishing and consuming data.  
Worked on Role based Authentication and successfully integrated to the application.  
Strong communication, presentation and analytical and problem-solving skills.

Successfully deployed the application in glassfish server and had good hands on experience with clustering glassfish server.

Premier, Inc., Charlotte, NC

Sr. Applications Engineer

May 2009 – October 2009

* Participate in the maintenance, deployment, documentation and operations of the applications used by Informatics products.
* Managing and developing process improvements for the Informatics, claims processing and billing departments.
* Facilitating production support issues.
* Work heavily with multiple end user operating systems for software installations and resolved any technical issues using various advanced troubleshooting skills.
* Used WebSphere Message Broker Toolkit for all message flow development, WebSphere MQ Explorer for MQ development and Administration.
* Proficient in using WebSphere 6.1, Web logic 10.2, Oracle 9iAS, JBOSS, Tomcat-Apache
* Created new user/network accounts and configure these to work with Exchange Server.
* Team lead & management experience (i.e. weekly conference calls, deployments & project schedules).
* Managing and driving issue resolutions via an online JIRA & Confluence reporting & tracking system.
* Implemented ongoing corrective actions and processes within a production support environment.
* Supported Linux, Windows & Solaris UNIX systems/servers through ongoing maintenance, modification, server outages/fixes, and problem resolution to support ongoing Healthcare Informatics delivery of services.
* Responsible for the installation, setup, administration, maintenance, and enhancement of new and existing applications and infrastructure as well as assisting the architecture team in design of new healthcare products.
* SQL code deployments using Ant scripting and Linux/Windows Server Configuration
* Development & Production data loads for various hospitals, claims and billing departments.
* MySQL & SQL Server 2005 Conversion/Migration planning, management and deployment
* FTP Configuration & Setup tasks for various end users
* Troubleshooting server issues, outages, configurations and deployments
* Legacy/Fallback technology support
* Documentation of various in-house system administration procedures for all Informatics end-users
* Coordinate deployment plans, procedures and configurations for Development, QA and DBA teams

Redwood Software, Inc. Morrisville, NC

Software Support Engineer/Contractor

March 2008 – April 30, 2009

* Provided software technical support for an international software development company. Responsibilities included 1st and 2nd line support to customers, via email, phone, and help desk systems in healthcare claims and billing departments.
* Performed static analysis of application source code andscenarios of software implementations in order to provide solution for problems.
* Provided software technical support for consultants and set correct priorities of ongoing issues
* Work with the development group to better products and/or resolve customer issues.
* Assisted with providing administration assistance to the support process such as licensing of software.
* Design, development and deployment of Redwood Software medium and large-scale transactional projects utilizing WebSphere Message Broker 6.1, WebSphere MQSeries 6.0, Java, WebSphere Partner Gateway 6.1, WebSphere InterChange Server 4.2, Web services, XML, Oracle, DB2, UNIX and Mainframe technologies.
* Worked with other software partners to resolve customer issues. At times, worked in high pressure situations in “customer down”/high priority scenarios to resolve issues timely and professionally.
* Well-rounded in IT skills and the ability to use a wide range of that knowledge at any given time.
* Possess a high-level of expertise in multiple operating systems (i.e. Windows, Linux and UNIX flavors).
* High-level of experience and exposure working with Oracle (PL/SQL, SQL).
* Some Java coding to troubleshoot and resolve customer issues.
* Utilized shell scripting (i.e. CMD & KSH) implementations to support customer issues
* Exposure to various security models for Windows and UNIX to include IT infrastructure components.
* Worked with SAP to resolve various customer issues.

Cubic Defense Applications, Inc. – Kingstowne, VA

Sr. Software Engineer

October 2002 to February 2008

* Developed a Java Swing GUI application from scratch on a Windows XP platform. The Java Swing application was design to execute specific commands via the Java UI to automate tedious command-line driven tasks for various modeling and simulations functions (i.e. the creation and destruction of federates, a small java program executing as a background process) and the execution and control of a real-time interface (RTI) engine component).
* Developed a Service Oriented Architecture (SOA) based application in Java utilizing Service Oriented Architecture Protocol (SOAP) and XML on a J2EE Windows XP platform running a back-end Oracle RDBMS to remotely acquire raw formatted text files from a Windows 2003 application server that utilized a data converter to convert the files to binary format for 3D data modeling and simulation purposes. The data converter was written using the C++ programming language and supported both Linux and Windows environments.
* Software architecture, development, reverse engineering, testing, integration, documentation and maintenance of existing Java applications using the Java 3D API and JDBC interface. Experience with Software Integration .Net and VB6/C#.Net development.
* Leveraged Agile methodologies with daily Scrum meetings, project updates and impediments.
* Managing build software releases, code deployments and maintenance tasks via 2-week sprints.
* Reverse engineer technical processes for greater efficiency. Engaged in the coordination of meetings, providing execution and risk assessment/guidance to a government customer SPAWAR.
* Solid understanding of Relational Database Management Systems (RDBMs). (i.e. MS SQL Server 2000/2005 Express & Enterprise editions, MySQL 5.0, Sybase, Postgres SQL and Informix.
* Implemented updates to an existing C#.NET application under a Windows XP environment utilizing the .NET 1.1/2.0 framework infrastructure. This assignment involved software design, architecture, static code analysis, modifications and updates to the C# Graphical User Interface (GUI) application, testing and integration with external software programs associated with a larger modeling & simulation software system. Also supported with various Install shield configuration builds, packaging and deployment efforts for various end users and customers to include technical support/bug fixes.
* Developed Perl scripts to automate execution of custom Java & C++ applications, parse various data file formats and updating/extracting data from MS Excel/CVS formatted files for testing purposes. The Perl scripts were written for both Windows and Linux environments.
* Used Maven to build and deploy the projects.
* Responsible for the requirements, design, development testing and integration of expanded Modeling and Simulation (M&S) capabilities for weapons effects on structures and terrains within military applications.
* Utilized a SharePoint web-based portal to acquire software architecture, requirements, design and testing documentation, installation procedures and other pertinent documentation for both .NET and J2EE based applications and software tools.
* Installed, managed, and maintained the Weapons Analysis Software which involved the installation, configuration and management of the software. The Weapons Analysis Software was a highly integrated collection of modeling and simulation (M&S) software and data components. Heavily used the MATLAB API for weapon/target and damage assessment analysis by virtue the Matrix Library and the MEX Library functions in gateway and computational routines to interact with data in the MATLAB workspace.
* Customized, re-architecture, enhanced and maintained in-house custom GUI Java, C#.NET and C++ code on Windows, UNIX and Linux platforms which comprises a subset of Weapons Analysis Software.
* Integrated existing in-house software applications with the customer’s software applications and developed new software capabilities to be integrated and tested in compliance with the customer’s functional requirements.
* Developed and managed custom in-house Perl and C-shell scripts to automate specific functionality in support of the Weapons Analysis Software.
* Managed and supported all in-house software applications, HTML code, scripts and environment settings on a Windows 2000/XP/UNIX platform and in a Linux environment.
* Worked on developing / converting (MATLAB to C/C++) algorithms for real-time Background Subtraction module which allows managers of a military base to monitor daily incoming air traffic.
* Analytic Integration

UPS INFORMATION SERVICES – Timonium, Maryland

Sr. Systems Developer

November 2001 to July 2002

* Responsible for all aspects of new software architecture, development and maintenance for a mobile message switch (MMS) utilizing X.25 and wireless communications interfaces.
* Provided software solutions using Visual C/C++ on a Windows 2000 Professional operating system, technical expertise and software documentation for many members of the development, certification and operations groups.
* Assisted management in project coordination with groups at remote sites.
* Possessed strong communications, management and software architecture and development skills.
* Possess fundamental knowledge of Tandem NonStop SQL hardware, software, performance monitoring and tuning.

* Interfaced with DIAD and ODS development groups, responsible for the development and maintenance of various MMS related software applications, database design and maintenance, and interfaced with other UPS departments with respect to new projects in addition to software architecture and maintenance support for existing projects.

TRITEK INC. – Hockessin, Delaware

Senior Software Engineer

July 2001 to October 2001

* Maintained Visual C++ 6.0 code for image capture software that acquired images and interface with a Graphical User Interface (GUI) software application to display various image characteristics.
* Used C++ multi-threading to interface with the GUI application, a bit-flow circuit board and a DRS software module (via an Ethernet cable using named pipes).
* Integrated a commercial Optical Character Recognition (OCR) based software package with custom C++ image capture code via a serial port running on a remote PC to transfer image captures when required.

SAIC - Columbia, MD

Software Engineer/Contractor

June 2000 to June 2001

* Ported a Linux-based application over to the Windows NT platform. The application is designed to detect the introduction of malicious faults in computing systems.
* Collected data representing computer users' activity (i.e. processes and threads), formulating models that capture the data’s essential features, and scoring new user sessions against such models.
* Developed the application in C using the Visual C++ 6.0 Enterprise development suite.
* Successfully completed the User profiling task by developing a native Windows NT application to capture and monitor user activity via Win32 API calls and other Microsoft system related functions. This task primarily required the porting of an existing application that captures and monitors user activity on a Linux machine.
* Exposure to Linux and Windows NT 4.0 network administration to include job scheduling using Perl 5. Developed a database interface using the MySQL Server 4.0 database.
* The Windows NT 4.0 version of the application was developed to open a connection to the MySQL database server and transfer large amounts of Windows NT system related process information for enabling the customer to perform complex queries (i.e., extract critical information for various user sessions).
* Also responsible for developing an IP Security (IPSEC) configuration module using the Python programming/scripting language which is used to configure, encrypt and monitor Internet Protocol (IP) traffic between remote Linux hosts associated with a Virtual Private Network (VPN).
* Performed software installation, kernel configuration, and Python software architecture/development using the Red Hat Linux 6.1 operating system.

DEPARTMENT OF DEFENSE (DOD) - Fort Meade, MD

Software Developer

January 1995 to June 2000

Network Process Management (CPM) Capability - June 1999 to June 2000

* As software developer for an in-house packet switching network, developed C/C++ code to interface with data packet switches via a X.25 network protocol.
* Utilized OOA/OOD software architecture and design methodologies to construct context-level diagrams, class diagrams and method specifications for analyzing and developing C++ code.
* Designed and developed C/C++ code to invoke various network socket-level systems calls for sending/receiving network configuration data to native UNIX processes in order to accomplish specific tasks.
* Developed “C” code to interface with Sybase SQL server to execute SQL commands such as queries, insertions and deletions for managing process information via multiple databases.

Swift Station Electrical Test Data Converter - August 1995 to May 1999

* As a programmer for this high-priority software development effort, responsible for the development and architecture of software for the Swift Station Electrical Test Data Converter which provided extra capability for a chip fabrication clean room facility’s Electrical Test department to more accurately evaluate product.
* Modified and enhanced the architecture of a complex module written in “C” which creates a wafer map and determines where certain defects or failures are located relative to the origin which is based on an x-y coordinate system.

ADVANCE MEASUREMENT SOLUTIONS (AMS) - Millersville, MD

Software Engineer

June 1994 to May 1995

* Provided software architecture and engineering services for a Serial Interface Module (SIM) to interface with fuel pump monitors in order to evaluate various liquid levels of fuel tanks.
* Developed a capability in C using the Microsoft Visual C++ 5.0 development system to interface with a modem to send/receive signals via standard AT commands to a UART/external bus interface to assist in measuring liquid levels in fuel tanks.

PROFESSIONAL ASSOCIATIONS:

* Association for Computing Machinery: President, South Carolina State University, 1994
* Institute of Electrical and Electronics Engineers (IEEE) National Capital Area Council Consultants Network, 2000
* Microsoft Certified Systems Engineer (MCSE) Study Group, 2001
* Microsoft Certified Solutions Developer (MCSD) Study Group, 2001

PUBLICATIONS AND PRESENTATIONS:

Embedded Systems Conference: “Providing engineers, developers, and project managers with practical information from high-caliber instructors in the embedded industry”, San Jose, CA 1999.

America's Integrated Information Technology Exposition, FOSE Exposition Washington, DC 1997

EDUCATION:

South Carolina State University – Orangeburg, SC

B.S., Computer Science, 1996; Cum Laude graduate; Mathematics Minor

University of Maryland – Adelphi, MD

Graduate work towards Masters of IT (Software Engineering concertation)

2020-2023