

# MATHEW THOMAS

Senior Manager/Architect with 18 years of experience in software development. Expertise in leading teams to deliver products in a wide array of industries including Finance, Mortgage, Hospitality, Telecom and Media Monitoring. Skilled in analyzing business needs and devising solutions that optimize across the board. Ability to zoom-out (Enterprise Architecture) and zoom-in (Technical Architecture) as it relates to Systems Architecture & Development.

## CORE COMPETENCIES

- |  |   |                              |
|--|---|------------------------------|
| ▪ Technical/Solution/Enterprise Architecture | ▪ Enterprise/Startup Experience           | ▪ Resource & Budget Planning |
| ▪ Open Source/Search/RESTful                 | ▪ <b>AWS Certified Solution Architect</b> | ▪ Client Relations           |
| ▪ Development Leadership                     | ▪ Certified ScrumMaster                   | ▪ Publish Technology Blogs   |
| ▪ People Management                          |   | ▪ Legacy Modernization       |

## PROFESSIONAL EXPERIENCE

### **Fannie Mae ✦ Herndon, VA ✦ Sept 2014 - Current** **Sr Manager (Development)**

- Senior Development Manager leading the replatform of Fannie Mae's Underwriting platform using an Agile delivery model.
- Leading two cross-functional Scrum teams of developers, testers and system analysts.
- Leading the delivery of the new platform using open source technologies such as Spring Boot (RESTful services), Spring Integration, Spring Cloud, Spring Data, Hibernate, ELK, APM, etc.
- Leading the build using AWS including services such as EC2, ELB, Autoscaling, Beanstalk, S3, PostgreSQL RDS, CodeDeploy/Pipeline/Build, etc.
- Led the creation of Single Family Developer TechTalk forum to bring in ideas from internal and external speakers.

### **Enterprise/Technical Architect**

- Lead the build out of an Enterprise Log Analysis platform using ELK (ElasticSearch, LogStash, Kibana) and Redis.
- Enterprise Architect on strategic initiative Loan Delivery NextGen to implement a new distributed architecture to replace a monolithic legacy platform.
- Participated on various Architecture efforts and providing guidance to development team, ensuring alignment with initiative roadmap, Cloud alignment, Microservices using CloudFoundry, Docker/Container tech, etc.
- Technologies: Spring, RESTful API, JMS, ELK, DynaTrace, Infrastructure Strategy, Event Driven Architecture.

### **Eagle Ray Inc. ✦ Chantilly, VA ✦ Apr. 2014 - Sep. 2014** **Lead Enterprise Architect/Technologist @ USCIS**

- Lead Enterprise Architect, heading up team of 15 Architects in support of various Architecture initiatives; defining solution recommendations, leading prototyping efforts, early stage API strategy, ECM strategy, etc.
- Analyzed search requirements and provided recommendations on search architecture.
- Architecture Team Manager leading a team of Architects and reporting directly to the USICS Chief Architect.
- Technologies: Spring, RESTful API, JMS, ElasticSearch, Spring Security, Spring Data.

### **PublicRelay ✦ Reston, VA ✦ Jan. 2013 - Apr. 2014** **Product Architect**

- Led Architecture and design efforts in support of new features, including modernizing the RESTful architecture.
- Worked alongside Product Management to analyze feature requests and provide technical direction and delivering features in three-week Agile sprints (to production).
- Built various components including; a Google/Factiva email article ingestion component, ElasticSearch article storage and retrieval, Spring RESTful service stack, Spring Integration and Spring Security-based authorization.
- Designed and developed an auto-syndication component using a near real-time asynchronous architecture using ActiveMQ, Spring Integration and de-duplication algorithm.
- Technologies: Spring, Spring Integration, RESTful, ElasticSearch, ActiveMQ, Hibernate, JSON, New Relic, Git, AWS.

### **Accenture ✦ Arlington, VA ✦ Apr. 2012 - Dec. 2012** **Senior Manager - Architecture Innovation Group**

- Key role in the creation of API Credentials and supported efforts to create an API Strategy involving both business and technical point of views. Technology review included RESTful web services, caching and API Management tools like Apigee.
- Technical research on emerging technologies MongoDB, Node.js, Express and Mongoose. Developed prototype using Spring Data and presented brown-bag session to demonstrate product.
- Supported business development efforts from an Architecture perspective for Pegasystems BPM.
- Created the Technical Architecture recommendations to replace manual business process with automated Pega BPM solution.

**Fannie Mae † Reston, VA † Apr. 2008 - Apr. 2012****Senior Technical/Solutions Architect**

- Managed multiple tasks in support of enterprise initiatives including:
  - Implemented a pilot project on the Mega Enterprise Architecture modeling tool.
  - Led the Agile Tool Selection Working Group to select tool for Agile project management (Rally was the selected tool).
  - Accountable for Architecture decisions/alignment across multiple projects; as well as standing up Architecture organization in Single Family Technology.
  - Created Architecture blueprints and solicit buy-in from various stakeholders.
  - Champion the adoption of Agile development methods, including TDD and Continuous Integrations.
  - Co-Led efforts to rationalize the list of development tools to use on new initiatives. Catalog included Spring, Spring Security, Spring MVC, Jenkins, Sonar, Eclipse IDE, JUnit, EasyMock, JQuery, Crucible, Maven, Nexus, etc.
- Legacy Modernization (using Strangler Pattern)
  - Created the conceptual architecture for real-time publication of business events to the ESB from legacy systems.
  - Led prototyping effort using Tibco BusinessWorks & EMS and worked with Dev Leads to refine the architecture and thereafter evangelize it to various stakeholders.
- Customer Contract System (CCS)
  - Responsible for the Architecture Solution Blueprint, performing hands-on prototyping of Spring Security into the product and into the Fannie Mae environment.
  - Designed and developed time/cost estimates for multiple projects using Agile estimation techniques; mentored team in aspects of implementing Agile SCRUM.
  - Technologies: Weblogic 9.2, J2EE, Struts2, Spring, Spring Security, iBatis, Oracle, PLSQL, Ant, CVS, ClearQuest, TIBCO BW, EMS, Rally, Hudson, Clover, JUnit, PMD, Emptoris. TOGAF9, BPM Product Evaluations.
- Quality Assurance System (QAS)
  - Lead Architect responsible for the technical architecture and design of new platform.
  - Worked with business, project management and development team to align technology decisions with business needs.
  - Ensured adherence to prescribed architecture by conducting design/code reviews.
  - Technologies: Weblogi, J2EE, JSF, iBatis, Spring, Oracle, PLSQL, Ant, CVS, ClearQuest, Eclipse, CruiseControl.

**Excella Consulting Inc. † McLean, VA † June 2007 - Apr. 2008****Technical Architect (Consulting)**

- Capital One
  - Lead Architect and Agile SCRUM Master for the Collateral pledge tracking application.
  - Led development using SCRUM Agile framework and guided the group through adoption of agile project.
  - Conducted Sprint Planning, Reviews and Retrospective sessions.
  - Technologies: Weblogic, J2EE, Oracle, Hibernate, Spring), YUI, Webwork, Sitemesh, Ant, ClearCase, ClearQuest.
- Washington Post
  - Quick-strike project to analyze and externalize portal content using XML, XPATH. Tomcat, Apache Web Server, RelaxNG schemas, XMLMind & XSTL schemas.
  - Setup Confluence Wiki to implement a corporate wide knowledge portal.
- Marriott International
  - Provided technical expertise in key areas; Agile productivity tools (CruiseControl) and Hibernate ORM tool.
  - Technologies: J2EE, WebSphere Server, Oracle, Hibernate, Spring, JUnit, Maven, Log4j, UML, CruiseControl.

**FINRA. † Rockville, MD † Aug 2005 - May. 2007****Technical Architect (Independent Consultant)**

- Technical Architect on exam authoring system which delivers various securities related exams.
- Defined application architecture, agile development process, code review guidelines and CI development model.
- Designed and implemented key components for unit testing, code coverage, Hibernate support, web service integration, etc.
- Technologies: J2EE, Weblogic, Oracle, JMS, JDBC, Hibernate, Spring, JavaScript, AJAX, JUnit, Ant, Clover, PMD, UML.

**Dante Consulting. † Arlington, VA † Aug 2003 - Aug. 2005****Senior Principal / Technical Architect**

- US Treasury (FRBC) ([www.pay.gov](http://www.pay.gov)) - Secure electronic payments to Federal Government Agencies via credit card or ACH.
  - Responsible for Technical delivery & architecture of the collections / settlement modules.
  - Led and managed the collections development team using an Agile FDD development model.
  - Implemented payment settlement modules that interfaced with Bank of America, Mellon Bank, American Express and US Dataworks to settle credit card and ACH transactions.
  - Technologies: J2EE, Weblogic 8, Oracle 9i, JMS, EJB, JDBC, JMX, Hibernate, Spring, JavaScript, Quartz, Struts. Rational Rose, JUnit, Ant, Log4j, Clover, XDoclet.

**Cysive Consulting. ✦ Reston, VA ✦ Mar 2000 - Aug. 2003**  
**Sr. Software Engineer / Technical Architect**

- Cymbio Interaction Server (early BPM) - Product Development
  - Designed and developed various components of the Integration Server (IS) which featured a development model that aimed at reducing/eliminating the need to write custom code to build applications.
  - Developed server-side components that facilitated handling of requests from multiple delivery channels
  - Extended Apache AXIS 1.0 to allow SOAP over SMTP.
  - Designed and developed a .NET Client Proxy component.
  - Implemented JMX based web administration console to deploy/un-deploy applications
  - Implemented J2ME request manager that allows for reliable communications between mobile devices and remote servers.
- Online Investments Inc (OLI) (Startup) Lead Architect – Consulting
  - Application enables members to build their own stock fund portfolios (buy-and-hold).
  - Reported directly to startup CEO and CTO to build and release the system.
  - Weblogic, EJB, Servlet, JSP, IIS and SQL server. UML used to model application design
- Zethus – Commercial Real Estate Platform – Consulting
  - Application allowed Tenants, landlords and brokers to search for commercial space and enter into negotiations regarding leasing the space. Implemented various modules of the system using the ATG Dynamo application server.
- Amerix - Online Bill Payment & Bill Management – Consulting
  - Manage & Pay bills online, receive new bill notification and schedule payments. Java, J2EE, EJB, Oracle.

**Various Additional Positions ✦ Cincinnati, OH ✦ June 1997 - Mar 2000**  
**Telecommunications Industry**

- **Convergys Inc. (Software Analyst Engineer)** - *Technical Lead / Java Mentor on self service portal using IBM WebSphere, Servlet, JSP, IIS, Oracle, WAP, WML*
- **AT&T (Contractor from WebSci Tech)** - *Java Web Application, C++ backend, OrbixWeb, CORBA, Oracle*

**EDUCATION**

**Johns Hopkins University, Rockville, MD**  
*M.S. Information Systems & Technology*

**Pune University, MH, India**  
*B.S/B.E Computer Science*

**SKILLS**

<b>Key Skills</b>	Development Leadership, Agile Development, Product Roadmaps, Enterprise Architecture Blueprints, IT Governance, Agile Coaching, Technology Blogging.
<b>Languages/Technologies /Framework</b>	Java, JEE/J2EE, XML, XSLT, UML, SQL, JDBC, JNDI, JMS, JMX, JAX-RS, JAX-WS, SAX, StAX, JSON, Web Service (SOAP, WSDL), JAX-RPC, Spring, Spring Security, Spring Integration, Spring Boot, Spring Data, Hibernate, iBatis, C, C++, TOGAF9.
<b>Web</b>	Spring Web/MVC/RESTful, Struts, Sitemesh, Servlet, JSP, JSF, HTML, JavaScript, AJAX, YUI, JQuery, AngularJS, Bootstrap.
<b>Build</b>	Maven, Ant, Gradle.
<b>Testing/Quality</b>	JUnit, TestNG, Spock, Clover, Emma, PMD, FindBugs, CheckStyle, Sonar, CruiseControl, Jenkins/Hudson
<b>Middleware/DB</b>	Tomcat, WebLogic, JBoss, Oracle, MongoDB, ElasticSearch, ELK, MySQL, SQL Server.
<b>Tools</b>	Eclipse, Netbeans, Rational Rose, Enterprise Architect, Mega, TOAD, XML Spy.
<b>SCM</b>	Subversion, Git, CVS, Perforce, StarTeam, MS Visual SourceSafe, ClearCase, ClearQuest.
<b>Integration/BPM</b>	Spring Integration, Apache Camel, TIBCO BusinessWorks, Tibco EMS.
<b>Other Areas of Knowledge</b>	Microservices, CloudFoundry, Spring Cloud, Eureka, Hystrix, Hystrix Dashboard, Turbine, API Architecture, 12 Factor App Design, AWS Cloud, CloudFoundry, CI/CD, DevOps, Apache Hadoop, Mahout, HDFS, Scala, Drools, CouchDB, Express, Nodejs,

