

Sergey Pomytkin

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Senior Software Developer/Architect with over 25 years of experience in leading teams, designing and implementing mission critical web-based applications, shared services and applications integration projects. Highly-motivated team player with a proven track record in leading, coaching, and mentoring; facilitating design sessions, creating and conducting presentations; troubleshooting and auditing legacy applications for security, improving system maintainability and performance.

Looking to join a team of top contributors and hit the ground running or take charge as a team lead establishing best practices and maximizing team productivity.

Languages:	Java (JEE: Spring, Servlet, JSP, web services SOAP and JSON/RESTful), SQL, XML/XSLT/, JavaScript, UML
Containers:	AWS Lambda, Google AppEngine, Docker; BEA WebLogic, IBM Websphere, iPlanet, Tomcat, MS IIS, Apache, jRun
Databases:	Oracle, MS SQL Server, MySQL, Postgres; AWS DynamoDB, S3, SimpleDB, managed RDBMS
Applications:	Eclipse, RAD, WSAD, jBuilder, Together J, Rational Rose, ERwin, github, MS VSS, CVS, PVCS, Clear Case; SAST Fortify, SonarQube
Methodologies:	Agile, RUP, XP, JEE and GoF design patterns, OOA/OOD

EDUCATION AND CERTIFICATIONS:

2017 AWS Certified Solutions Architect (expired 2019)
 2013 Introduction to Chef, hands-on session
 2012-2015 AWS Re:Invent - multiple training sessions on AWS technologies
 2011 GIAC Secure Software Programmer – Java certification with best score as of 3/2011
 2007 Information security by Fortify



2007 MBS Securities business 101 by DTCC



2006 IBM certified SOA solution developer (Test 665 Architectural Design of SOA Solutions)
 2006 IBM certified solution developer XML 1.1 and related technologies (142 XML 1.1 and Related Technologies)
 Test 484 Enterprise Connectivity with J2EE 1.3
 Test 287 - Enterprise Application Development with IBM WebSphere Studio V5.0
 Test 486 Object-Oriented Analysis and Design with UML
 2005 Processing Fixed Income Securities by DTCC
 2005 "Internet/Intranet security" Training by SecureSoft
 2002 "Use of Design Patterns in RUP" Training by Net Objectives
 2002 ATT Wireless training center:
 - Effective meeting leadership,
 - Conducting successful presentations,
 - Conflict resolution
 2002 Applied UML by Dr. James Rumbaugh
 2002 MS .NET developer training by SQLSoft.
 2001 SDF, Rational Clear Case, Java&CORBA by SQLSoft.
 2001 certified in Java - EJB, Java 2, SQL, OO Concepts, WWW Concepts, RDBMS Concepts
 2000 general OOD/OOA/UML training, TogetherJ training by Together Soft.
 1999 certified master Web Programmer, HTML, JavaScript.
 1997 "Design of complex corporate WEB-sites" by CIT-MGU
 1991-1996 Mordovian State University Diploma of electronics engineer in field of "Industrial electronics" with specialization "Using and exploitation computers facilities", individual specialization in Object Oriented Design.

Experience Summary

Experienced in leading development teams:

- * Extensive experience in design, prototyping and development of large and small scale applications on JavaEE and cloud platforms;
- * Evaluated technologies and recommended tools and libraries for corporate implementations;
- * Designed core libraries and infrastructure classes for the system to be used by the development team;
- * Conducted training sessions, design reviews and candidates evaluations;
- * Over 25 years of software development in finance, telecommunications and government agencies;
 24 years of experience developing Java EE applications (Tomcat, Weblogic, Websphere, iPlanet, Netscape Enterprise Server; Oracle, MS SQL, Postgres, DynamoDB), 3 years in ASP/IIS/MS

- SQL, 3 years in Perl/Apache/MySQL,PHP/Apache/MySQL, 10+ years AWS services
- * Over 20 years of web Internet/Intranet and backend development in major financial companies
- * Developing cloud solutions based on Amazon AWS stack.
- * GAIC certified Secure Software Programmer-Java
- * AWS Certified Solutions Architect

Employment History

2010
to 2024
DTCC, Infrastructure division

Sr. Technology Consultant, Security maven, Technical owner of the Disaster Recovery orchestration and Self-Service Execution products.

DR Console Project:

Due to its cornerstone role for the financial industry DTCC is heavily regulated with obligation of regular DR-exercises. Failure to achieve RTO on regulator-assessed DR-exercise(s) will lead to multi-million dollar fees and reputation loss. Started as a web-app visualizing DR progress, DRC was integrated with the orchestration engine and now allows control exercise setup, fallback, recovery and applications validation. Adopting Agile practices we consistently delivered enhancements and established rapid release schedule. Enhanced usability of the DRC allowed to cut DR execution by 90%. DRC uninterrupted functioning during disaster (or DR simulation in exercise) deemed essential to meet RTO.

Technologies used:

Hybrid EC2 and on-prem clustering, Tomcat, MSSQL always on cluster, Spring, OpenSAML, HPOO

SSE Project:

Self-Service Execution is a subsystem of the infrastructure and services provisioning system allowing service owners to plug-in automated and manual tasks in self-service system. SSE built on the same platform and technology stack as DRC utilizing a significant part of its codebase allowing fast delivery and minimizing costs while providing a solid solution on proven infrastructure. SSE provided complete transparency and greater control on services provisioning, reducing time to delivery and human factor.

As technical owner of DRC I was able to timely identify and address required refactoring of DRC codebase to different workloads and integrate with new systems.

Technologies used:

Hybrid EC2 and on-prem clustering, Tomcat, MSSQL always on cluster, Spring, OpenSAML, HPOO

ECE Services Project:

As a lead developer of the Enterprise Cloud Engineering (ECE) team, I designed and led the onshore-offshore team in implementing the management UI and services for provisioning, monitoring and maintenance of AWS services. ECE Services were initially meant as a stop-gap measure until an off-the-shelf solution improved enough to meet the company's needs. Despite that, ECE Services continued to be utilized and developed for many years including features like the EC2 volume backup

management.

Technologies used:

CloudFormation, EC2,EBS,EFS, EBS encryption with on-prem managed cert., S3, Glasier , Tomcat, Elastic Beanstalk, MYSQL RDS, ELB, VPC, Spring, OpenSAML

Projects Description:

GTR - Global Trade Repository for OTC Derivatives - automated regulatory reporting solution

Responsibilities:

resolve technical challenges with public dissemination component of GTR solution

Accomplishments:

- * Evaluated and designed AWS-based hybrid cloud solution for serving public data to potentially unlimited number of concurrent users.
- * Developed RSS feed component.
- * Provided support and tuning for cloud-based load and performance testing system.
- * Evaluated solutions for BigData analysis

Technologies used:

Eclipse, IBM WebSphere, IBM RAD; AWS S3,AWS EC2, AWS EMR/Hive, AWS AMI, AWS DynamoDB, AWS SimpleDB

Feb 2005
to 2010
DTCC, FIC division

Technology Consultant

RTTMs (GSD,MBS,CMU) Projects Description:

- core DTCC business with daily processed trades volume comparable to yearly USA GDP.
- as mission-critical as it gets - failure or delay will impact all major financial companies and will be in tomorrow newspapers headlines

Accomplishments:

- Real-Time Trade Matching system rewrite allowed to save more than a million\$ on legacy platform vendor support bill, scale on modern distributed platform, improve maintainability with modular design.
- Complete redesign of core Trade Matching system on new technologies, design of regression testing system allowed side by side testing of legacy monolithic object-plascal- based system and new JavaEE system to assure risk-free transition

Responsibilities:

Design and development of core libraries, integration of core system with external systems (settlement, web front end).

Technologies used:

Win2k, Oracle; Eclipse, IBM WebSphere, IBM RAD; Spring 3

Sr. Developer

Projects Description:

Web Front End for government securities Real-Time Trade Matching system; redesign of RTTM WFE systems for Mortgage Based and CMU securities.

Responsibilities:

to produce full set of analysis and design documentation compliant with CMMI requirements; provide expertise in development of highly available, mission critical Java application in clustered environment. Lead and coach new team members and junior developers.

Accomplishments:

- Designed new and redesigned legacy components of JDF (in-house MVC framework).
- Streamlined development process. New generic design saved 20-80% of development time.

Reuse of generic components reduced the amount of required coding for new “summary” screens up to ten times while maintaining backward compatibility with the old products.

- Participated in deployment layout redesign of GOV/MBS/CMU application to independent applications under same single-sign-on yet deployed to the separate clusters. This change allowed independent release schedule and enhanced stability of these applications.
- Participated in conversion from Windows/BEA Weblogic platform to Solaris/IBM Websphere
- Evaluated and integrated Ajax (JSON-RPC) technology to GOV RTTM system.
- Trained junior developers on JDF, coding and documentation standards, release and support procedures.
- Served as technical liaison for offshore development of "internal applications migration" project – helped to setup development process, provided technical guidance and validation of design decisions, and resolve technical challenges.

Technologies used:

Win2k, Oracle; Eclipse, BEA Weblogic; IBM WebSphere, IBM RAD; JSP, Servlet, JMS, JSON-RPC

Sep 2004 to Dec 2004

*Consulting for
TD Waterhouse*

Lead Developer/Architect

- Developed a customer account management application with Java2EE backend (EJB Websphere AS 5.0.2), exposed through SOAP services and consumed on the web front-end ([ASP.NET/C#](#)).
- Created comprehensive design documentation compliant with customer-tailored RUP specifications.
- Led design reviews with the architecture team, achieving final sign-off.
- Provided expertise in rapid development with Websphere and WSAD, documented using Rational XDE tools.
- Designed and led the development of services for “manual review processes” and “durable power of attorney”.
- Resolved interoperability issues between Java and .NET, managed J2EE declarative transactions, and optimized the logging subsystem and application server configuration.

Technologies used: Win2k, IBM WebSphere, WSAD, Rational XDE for Java, UML, EJB, SOAP, JAXB, C#, Ant, junit, NAnt, NUnit, Log4j.

Mar 2003 to Sep 2004

*iGATE for AT&T Labs
www.igate.com.*

Feb 2003 - Sep 2004 **Consultant**

Responsibilities:

Responsible for new projects design and development, troubleshooting legacy applications and mentoring developers.

Accomplishments:

- Designed and developed the administration and monitoring subsystem of Barometer, a platform for business activity Monitoring and Control (M&C).
- Enhanced logging and exception handling using Log4j and introduced the team to Struts MVC implementation.
- Led the development of an ordering system, coordinating work with several teams and adhering to tight release schedules.
- Designed and developed subsystems for initial order provisioning and a configurable page navigation infrastructure compatible with the client’s custom MVC implementation.
- Trained colleagues in rapid development, logging, debugging, and UML modeling tools (Eclipse, Log4j, junit).

Technologies used: Solaris, Linux, Win2k, Tomcat 4, iPlanet 6, BEA WebLogic 6.1, Eclipse, GLUE Pro SOAP, Castor, JSP, Servlet, Struts, XML, Oracle, Sybase, MS SQL

Dec 2000 to Feb 2003
AT&T Wireless
www.ATTWS.com.

Jan 2001 - Feb 2003 Lead Developer,

Responsibilities:

Led several projects from inception to transition phases.

Accomplishments:

Architected, designed, developed and deployed 4 projects. Most of these projects had several versions with new functionality added in every version. Flexible design allowed for enhancements to be done without significant architecture modifications. All projects were deployed without any major problems during testing, all of them showed good performance and could handle constantly increasing load.

Deployment to application servers of different brands showed 100% standards compliance. Awarded a certificate of recognition as a result of excellent responses from customers. Established standards on error handling, logging, configuration and version control.

Evaluated SOAP libraries, XML parsing libraries, logging libraries. Mentored developers on SOAP, EJB, logging, developing xml interfaces, integration with Siebel and Vitria, shared services patterns.

Technologies used:

Solaris, Oracle 8i, BEA WebLogic 6.X, IBM Websphere, Siebel 6.X, Vitria 3.X;
SUN Web Services Developer Pack 1.0, Remote Tea ONC/RPC Java Library;
EJB, Servlet, SOAP, RPC, CORBA, Siebel EIA.
jBuilder, Rational Rose, TogetherJ.

Dec 2000 - Jan 2001 Developer,

Responsibilities:

Design, develop, unit test and document new functional areas and enhancements.

Redesign existing products to improve performance, reliability and functionality. Serve as a primary point-of-contact for a development and operational teams. Prioritize work assignments and resolve conflicting issues. Act as development team lead for small software projects.

Accomplishments:

Multitasking, extremely high performance and ability to get up to speed quickly allowed meeting timelines on 2 critical projects. Recognition of this achievements expressed as salary bonus and lead role in future projects.

Technologies used:

Solaris, Oracle 8i, iPlanet 4.1, jBuilder, TogetherJ,
Servlet, JSP, JDBC, XML

May 2000 to Dec 2000
Emplifi for AT&T Wireless
www.emplifi.com.

Consultant

Responsibilities:

Troubleshoot client applications, document modifications, transfer knowledge to client employees. Take part in design and development of legacy and new client's projects.

Accomplishments:

Fixed several multithreading and architecture problems, implemented new features in client's mission critical system. Organized knowledge transfers session on thread-safe servlet programming. System design and core development of new projects. Act as technology expert to assess future project expandability and implementation on Application Server with EJB technology.

Got many excited responses from business customers for increased stability and lightning-fast new features implementations. Recognized by Project Management for high performance and multitasking allowed to meet project timelines. Both projects awarded with salary bonuses.

Technologies used:

Solaris, Oracle 8i, iPlanet, Netscape Enterprise Server, VisiBroker;
jBuilder, TogetherJ; Servlet, CORBA. XML, XSL, JDBC2.0

August 1999 to May 2000
*Department of Finances,
Government of Republic
Mordovia, Saransk, Russia.*
Principal engineer/ Consultant

Principal engineer/Consultant

Responsibilities:

Provide strategic leadership. Plan and implement technology strategies. Resolution of complex issues. Suggesting and evaluating new technologies. Training members of technical staff. Integration of large-scale systems.

Accomplishments:

Finished conversion of legacy system from multiple monolithic DOS (Clipper) applications to complex of web-based intranet applications (development as well as team leading). Evaluated Java and MS platforms solutions for multi-tier, component based applications, provide guidance and mentoring for developers (also was invited to read lecture on this comparison in University). Designed and developed several intranet systems. Take part in architecture, design and prototyping of global distributed heterogeneous information system of all governmental agencies.

Technologies used:

MS WINDOWS NT 4.0, MS SQL Server 6.5, MS IIS, MTS, BEA WebLogic 4.x, Linux, Apache;
VB, Java, Perl, ActiveX, ASP, EJB, JSP,
MS VJ++, jBuilder.

August 1997 to August 1999
*ISP Department of JSC Svyazinform
(telecom) RM, Saransk, Russia*
Senior Web Developer/ Webmaster

Dec 1997 - Aug 1999 **Senior Web Developer/ Webmaster**

Responsibilities:

Leading web team of 1-3 developers. Lead developer in several projects from gathering requirements with client representative to final sign-off on results. Configuration and support of corporate web server (including on-call shifts). Development of web applications for department and company needs.

Accomplishments:

Developed several web-based applications, group showed great team-work and impressive performance.

Technologies used:

NT/IIS/MSSQL, Linux/Apache/Perl.

Aug 1997 - Dec 1997 **Web Developer/ Webmaster**

Responsibilities:

Development web applications and static web sites for department and company needs.

Accomplishments:

Developed several web-based applications, was recognized by management as highly motivated self-starter, skilled professional. Assigned as lead and mentor to junior developers.

Technologies used:

NT/IIS (ASP ADO)/MSSQL, Linux/Apache, MS WINDOWS 95, Allaire Home Site, Corel PhotoPaint, various software for image optimization.

July 1994 to August 1997
JSC "Saransk Information Agency"

Software Engineer

Responsibilities:

Chief computer specialist in small publishing company. Designing, installing, and maintaining LAN. Training personal for migration to new software. Network Administration, graphic design, marketing, hardware&software support...

Accomplishments:

LAN administration, multiple software upgrades, managing and troubleshooting all company hardware and software. Published first newspaper web site in republic.

Technologies used:

NT/ Linux/Apache, MS WINDOWS 95, DOS scripts, Allaire Home Site, Adobe PhotoShop, **VJ++**,

Volunteering project

Aug 2005 to Aug 2015

*Volunteering for
SchoolPlus*

Lead Developer

- *SchoolPlus is a non-profit network of weekend enrichment schools that utilizes custom website for communication with clients, teachers, scheduling and financial management.*

- Re-developed, enhanced with new features (e.g. homework, events, billing notification,...) and provided support

Technologie: Apache, PHP, MySQL.

Freelance projects

1992 to 2000

Mordovian State University
post-graduate student/ laboratory
assistant

Responsibilities:

Developing of scientific and educational support software. e.g. experiment data visualization, algorithm coding, MS-DOS TSR& driver coding. Developing software in scope of PhD research.

Accomplishments:

Developed number of testing, training and utility applications, conduct laboratory training. Designed and developed distributed computing system for PhD research calculations.

Technologies used:

MS DOS, WINDOWS, Turbo Pascal 5.5/Borland Pascal 6, x86 assembler, Paradox DB Engine, Borland Delphi, MS SQL Server.

1993 to 1994

JSC "SaranskKabel"
independent contractor

Responsibilities:

Leading and managing full cycle of development process .

Accomplishments:

Project was developed in time meet all customer retirements and actually exceeds expectations.

Windows intuitive UI, configurable modular application developed on object-oriented language was very straight-forward solution for time of monolith command-line applications.

Technologies used:

MS DOS, Borland Turbo Pascal 6.0, Turbo Vision UI library, Paradox DB Engine

RECENT REFERENCES:

Sergey and I worked closely together on several high profile projects. Sergey is a superb software architect-developer.

He has a deep understanding of the subject matter, the talent and motivation to find generic solutions to difficult problems, and the skill to implement them quickly. Sergey is a rare combination of being very smart with a wonderfully open and generous personality.

- Rozi Kovetsdi, Technology consultant, worked directly with Sergey at DTCC (May 9,, 2006)

I was working with Sergey's team at TD Waterhouse. Sergey's skills were really indispensable in getting his project done by deadline. His broad knowledge and deep understanding of technologies many times saved the day. Integration was seamless and elegant- thanks to clear docs and well thought interface. It was pleasure to work with Sergey and I hope it's not the last project where we collaborate

- Ivan Bagrintsev, J2EE Architect and Technical Lead, TD Waterhouse Group worked directly with Sergey at TD Waterhouse (December 30, 2004)

Sergery worked for me on a account management project. The application includes real-time customer verification via credit agency vendor, business rules validation, customer information records updates. It was a project that involved the pressure of a short deadline, but his hard work contributed to the on-time delivery of the product. He has been a great addition to the team, and a great professional to work with. His experience in RUP and Rational XDE design automation was invaluable in documenting the system design. And his ability to adapt to a broad range of technologies has been especially valuable.

Project involved heterogeneous environment using .NET technology in front-end which communicated to Websphere technology via API exposed as Web Services. The project required him to use Websphere AS, WSAD, XDE, and to know J2EE, .Net / J2EE integration, UML design.

I wish him the best of luck in his future endeavors..

- Bob Yuan managed Sergey at TD Waterhouse (December 30, 2004)

Sergey is a lead developer extraordinaire. He leads by example, and he instills a sense of urgency and importance into any project that he works on. He is an expert in Java, Struts, J2EE, SOAP, and UML, and he makes it a point to bring others on the project up-to-speed quickly. Sergey is a very nice guy and a very hard worker. I would hire him back in a second, given the opportunity.

- [Joe Orost](#) managed Sergey at ATT Labs (September 9, 2004)

I had pleasure to work with Sergey February 2003 - September 2004

Sergey helped me a lot in design and architecture of our projects. I appreciated expertise he brought from other companies as well as attention to details and specifics of ATT Labs. His skills and leadership was priceless on getting our developers into UML, design patterns, improving our best practices in coding standards, documentation and unit testing.

Our team appreciates his expertise in J2EE, SOAP, UML, and design patterns, attention to business details and patients with testers, analysts and peer teams.

- I-CHUNG YOUNG, Architect AT&T Labs (September 9, 2004)

I was working with Sergey since Feb 2003 till September 2004 on multiple versions of the IOM ordering system. Sergey done a great job on leading team in several critical components of this system showing role model for others in adopting new technologies, documenting with UML diagrams and enforcing good coding, documenting and unit testing practices. I can recommend him as outstanding team player, hard worker who not only perform exceptionally by himself, but also inspire everybody who happen to be around urge to new level of technical knowledge and process maturity.

- NACHIMUTHU, SURESH, ALABS (September 9, 2004)