

# Pavel V. Fomin

## Information Technology Consultant

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### Profile

- Over 10 years of software design and development experience in diverse industry environment
- Strong expertise in Java and JEE architecture with various Application and Web servers
- Solid RDBMS and NoSQL background

### Skills Summary

<b>Operating Systems</b>	Linux (Ubuntu, Redhat, CentOS, SUSE), Unix (Solaris, AIX, SCO), Mac OS X, MS Windows
<b>Languages</b>	Java 1.1-11, Groovy, Bash, SQL, HTML, JavaScript, CSS
<b>Frameworks</b>	<b>Spring:</b> Spring Boot 1.x/2.x, Spring Core 2/3/4/5, MVC / REST, Spring Security, Spring Data, Spring Kafka
<b>Databases</b>	<b>NoSQL:</b> Riak, MongoDB <b>Relational:</b> Postgres, CockroachDB, Oracle 7-12c, MySQL, MS SQL Server, Sybase
<b>Tools</b>	<b>Build:</b> Gradle, Maven, Ivy, Ant, GNU Make <b>Continuous integration:</b> GitHub Actions, Bitbucket Pipelines, Drone, Jenkins / Hudson, Bamboo, Concourse <b>VM / Cloud:</b> Docker, Chef, PCF, Vagrant, Puppet, Oracle VirtualBox, Amazon EC2, OpenStack, OpenShift <b>IDE:</b> IntelliJ, Eclipse, Emacs
<b>Application Servers</b>	Tomcat 3-9, Jetty, Liferay Portal Server 6.2, IBM Websphere Application Server 4/5/6/7, IBM Websphere Portal Server 6.1, OAS 10g, Resin, BEA Weblogic 4.5.1/5.1/6.1, Borland Inprise Application Server 4.x, JBoss, Apache Web Server, Oracle Web Server 2.1.1
<b>Methodologies</b>	Agile, SCRUM, Kanban, Test Driven Development
<b>Industries</b>	Retail, Loyalty Management, Medical supplies, Education, Finance, Banking, E-commerce, Healthcare, Medical Software, Software Development, Energy Management, Telematics

### Work History

#### [Target Corporation](#), Outbound Warehousing Load and Ship

Consultant

02/2022 - 01/2023

**Environment:** Kafka, Kubernetes (TAP), Docker, Linux, Mac OS X, Postgres

**Tools:** JDK 11/17, Java, Groovy, Kotlin, Micronaut, Gradle, IntelliJ, Emacs, Git, Grafana, ELK Stack, Jira, Slack

Implemented a number of business and technical initiatives improving efficiency, reliability, maintainability and scalability of the distributed, event driven technical stack. Reduced technical debt by minimizing code duplication, streamlining CI/CD pipeline and establishing best practices in the test driven development.

#### [Best Buy](#), Inventory Staging

Consultant

07/2020 - 01/2022

**Environment:** Tomcat, Kafka, AWS, Openshift, Docker, Linux, Mac OS X, CockroachDB

**Tools:** JDK 11, Spring Boot 2.x, Gradle, IntelliJ, Emacs, Git, Grafana, ELK Stack, Jira, Slack

Led the design and development of the Inventory Staging applications as part of a larger effort to create a next generation order management system based on the distributed, scalable and highly available order processing services. New architecture and design was based on the distributed event streaming platform Kafka, highly scalable CockroachDB and Spring based microservices increasing fault tolerance, scalability and availability of new order management applications. Helped with establishing

best practices in the test driven development, build and release automation using Git, Gradle, Jenkins and GitHub Actions.

[Aimia Loyalty Solutions](#), Product Engineering

Consultant

11/2019 - 07/2020

**Environment:** Jetty, AWS, Docker, Linux, Mac OS X, MySQL

**Tools:** JDK 1.7/1.8, Kotlin, Spring Boot 2.2, Maven, Gradle, IntelliJ, Emacs, Git, Jira, Slack

Helped with technical evaluation of the Aimia Loyalty Platform code base. Created multiple POCs using Spring Boot, Java and Kotlin with the goal of separating existing code base into multiple micro services. Implemented multiple enhancements to improve system performance. Created Spring Boot based security library adding OAuth 2.0 / JWT option to the existing custom token authentication model. Developed automated functional testing suite using Groovy and Spock.

[Target Corporation](#), Enterprise Payment Gateway

Consultant

05/2018 - 09/2019

**Environment:** Tomcat 9, Consul, Apache / Nginx, Kafka, VMSS, OpenStack, Docker, Linux, Mac OS X, Oracle 11 / 12

**Tools:** JDK 1.8 / 11, Spring Boot 1.5 / 2.1, Spring Cloud Netflix / Consul, Consul Template, Hystrix, Maven, IntelliJ, Emacs, Git, Drone, SonarQube, Oracle VirtualBox, Grafana, ELK Stack, Jira, Slack

Led a number of technical initiatives to improve security, stability, maintainability and scalability of the Enterprise Payment Gateway technical stack. Focused on foundational engineering tasks including creation of shared Spring Boot based libraries, migration of the application security model from Basic to OAuth 2.0 / JWT authentication and authorization, transition from Netflix to Consul based cloud registration, discovery and configuration services and migration to Java 11. Helped with establishing best practices in the test driven development, build, release, deployment and provisioning automation using Git, Drone and Chef.

[Solution Design Group](#), Professional Services

Senior Consultant

10/2014 - 05/2018

[McKesson Medical-Surgical](#), Web Development

**Environment:** Tomcat 7/8, Azure, Pivotal Cloud Foundry and private VMware OneCloud platforms, Linux, Windows 7, Oracle 11g

**Tools:** JDK 1.8, Spring Boot 1.5, Spring 4.x, Maven, Gradle, Eclipse (Mars), Emacs, Git, Bamboo, Concourse, Oracle VirtualBox, Jira, Slack

Created several Spring Boot based micro services providing new patient, formulary, order validation and submission functionality. Used private VMware OneCloud, Azure and Pivotal Cloud Foundry to enable application independent scalability and cloud deployment. Helped establish best practices in the test driven development, automated build and deployment processes. Completed Docker Swarm, Kubernetes and Pivotal Cloud Foundry POCs using Azure and private VMware OneCloud platforms helping with the cloud deployment strategy selection.

[Best Buy](#), Cloud Services Development

**Environment:** Tomcat 7.x, Riak, Memcached, Ehcache, Amazon EC2, OpenStack, Akamai, Linux, Mac OS X

**Tools:** JDK 1.7 / 1.8, Spring 4.x, Groovy, Spock, IntelliJ, Emacs, Git, Maven, Gradle, Jenkins, Oracle VirtualBox, Jira

Created highly scalable aggregation and transformation services for BestBuy.com to support functionality of new business initiatives. Implemented various architectural initiatives including domain services development, service integration with Node rendering tier and responsive front end redesign using Groovy and Spring framework in Amazon EC2 and OpenStack cloud environments. Used Akamai CDN and Edge Side Includes to offload edge traffic while providing configurable cache expiration and flushing capabilities of page fragments. Utilized Memcached and Ehcache to increase performance of the services tier.

[McKesson Medical-Surgical](#), Web Development

**Environment:** Liferay 6.2 EE, Tomcat 7.x, Oracle 11g, Windows 7, Linux

**Tools:** JDK 1.7, Spring 4.0, Solr, Nutch, JSP, Freemarker, jQuery, Sass, Bourbon with Bitters and Neat, Maven, Eclipse (Luna), Emacs, CVS, Git, Jenkins, Jira, DynaTrace

Implemented new public web site for McKesson using Liferay 6.2 EE Portal server enabling content authors to publish changes without application code deployment. Created several Liferay portal plugins to customize the Liferay implementation for the client. Setup clustered site search using separate Solr

server and Liferay Solr plugin. Used DynaTrace to identify the performance bottlenecks during the load tests. [More details](#)

### [Data Recognition Corporation](#), Information Services

Senior Software Developer

10/2013 - 10/2014

**Environment:** JEE, Tomcat 7.x, MongoDB, MySQL, MS Sql Server, OpenAM, Linux, Windows 7, Amazon EC2

**Tools:** JDK 1.7, Spring 3.x, SiteMesh, Groovy, Grails, Node.js, jQuery, JUnit, Spock, Eclipse, Emacs, Git, GitHub, Maven, Jenkins, Vagrant, Oracle VirtualBox, Puppet, Jira

Developed new components of the IAT, the school test creation and administration tool. Created new Text To Speech implementation service using Node.js. [More details](#)

### [Object Partners](#), Professional Services

Senior Consultant

12/2011 - 10/2013

[Menards](#), Web Development

**Environment:** JEE, Tomcat 7.x (tcServer), MySQL, Windows 7, Linux

**Tools:** JDK 1.6, Spring 3.1, JDBC, JSP, Velocity, jQuery, Maven, Log4j, JUnit, Mockito 1.9, Hibernate 3.6, Eclipse (Indigo), Emacs, SVN, Jenkins, Redmine, CodeCollaborator

Added new features to the Menards e-commerce web site and internal web site administration tool.

[PeopleNet](#), Backend Services Development

**Environment:** JEE, Tomcat 7.x, MySQL, MS Sql Server, Linux, Windows 7, Amazon EC2

**Tools:** JDK 1.6, Spring 3.1, Log4j, JUnit, Mockito 1.9, RabbitMQ, 2lemetry, Eclipse (Indigo), Emacs, SVN, Maven, Jenkins, Version One

Developed new and modified existing components of the asynchronous back-end services. Created RabbitMQ AMQP based guaranteed message delivery queuing Proof-of-Concept solution, deployed to local data center and to Amazon EC2 environment. Created facade for 2lemetry m2m rest api. Created new components for the custom load test engine to perform the load testing of the new services.

[Room and Board](#), Web Development

**Environment:** JEE, Tomcat 7.x, Oracle 11, Akamai, Windows 7, Linux

**Tools:** JDK 1.6, Spring 3.1, JDBC, JSP, SiteMesh, Freemarker 2.3, jQuery, Memcache, Ivy, Log4j, JUnit, Mockito 1.9, DbUnit 2.4, Groovy, OpenORM, Eclipse (Indigo), Emacs, SVN, Bamboo, Crucible, Jira

Developed new and modified existing components of the web site and internal web site administration tool. Focused primarily on the controller and backend services. Helped to design and implement the data versioning feature in the database schema. Created new and enhanced existing components of the UI layer using HTML, JSP, Freemarker, JavaScript and jQuery.

### [MoneyGram International](#), Systems Development

Lead Developer (Software Engineer IV)

10/2007 - 12/2011

**Environment:** JEE, Websphere Application Server 7.x/6.x/5.x, Tomcat 4.x/6.x, Websphere Portal 6.1, Oracle, IBM MQ, Windows XP, Linux

**Tools:** JDK 1.4/1.5/1.6, Spring (MVC), JSP, JSF, Portlet, Servlet, Ajax, jQuery, Wicket 1.2, Struts, JAX-WS, Axis 1.4, Ehcache 2, JDBC, XML, Ant, Log4j, JUnit, WSS4J, Castor 0.9/1.2, SoapUI, Eclipse, RAD 6/7/8, Emacs, CVS, Git, UML, Hudson, DokuWiki, Rally, XPlanner

Led the design and development of the JAX-WS based web services layer for the new Web Point of Entry system (Web POE). Created two prototypes of the new web site using JSF 2 and Spring MVC 3 frameworks. The Spring MVC based prototype became the foundation for the Web POE. Created the device authentication component using the signed java applet technology to enhance the security of the Web POE site. Demonstrated the Eclipse and Tomcat servlet container efficiency for the web development while supporting the deployment of the same code base on Websphere application server. [More details](#)

## Education

[Novosibirsk State Technical University, Novosibirsk, Russia](#)

**M.S. in Computer Science and B.S. in Mathematics**

Evaluated by International Education Evaluation, Inc. (REF # 116-0369)

[Red Hat, Inc.](#)

**RH133 - System Administration, Red Hat Enterprise Linux 4 course, 2005**

Successfully completed all Red Hat Certified Technician program requirements and is certified as a Red Hat Certified Technician, Red Hat Enterprise Linux 4.

[The George Washington University School of Business](#)  
**Managing IT Projects course, 2006**

[The George Washington University School of Business](#)  
**IT Risk Management course, 2007**

[Object Partners](#)  
**Groovy and Grails, 2012**

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