Pavel V. Fomin

Information Technology Consultant

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Profile

- Over 20 years of software design and development experience in diverse industry environment
- Strong expertise in JVM and cloud architecture
- Solid RDBMS and NoSQL background

Skills Summary

Operating Systems	Linux (Ubuntu, Redhat, CentOS, SUSE), Unix (Solaris, AIX, SCO), Mac OS X, MS Windows
Languages	Java 1.1-21, Groovy, Kotlin, Bash, SQL, HTML, JavaScript, CSS
Frameworks	**Spring:** Spring Boot 1.x-4.x, Spring Core, Spring REST MVC / WebFlux, Spring Security, Spring Data, Spring Kafka
Databases	**NoSQL:** Riak, MongoDB **Relational:** Postgres, CockroachDB, Oracle 7-12c, MySQL, MS SQL Server, Sybase
Tools	**Build:** Gradle, Maven, Ivy, Ant, GNU Make **Continuous integration:** GitHub Actions, Bitbucket Pipelines, Drone, Jenkins / Hudson, Bamboo, Concourse **Cloud:** GCP, Amazon EC2, OpenShift, OpenStack **IDE:** IntelliJ, Eclipse, Emacs
Methodologies	Test Driven Development, Agile, SCRUM, Kanban
Industries	Healthcare, Retail, Loyalty Management, Medical supplies, Education, Finance, Banking, E-commerce, Medical Software, Software Development, Energy Management, Telematics

Work History

Prime Therapeutics, Rebates Management
Consultant 01/2023 - 12/2025

Environment: Kafka, GCP (GKE, GCS, Big Query), Cloud Foundry, Docker, Linux, Mac OS X, Postgres
Tools: JDK 17/21, Java, Groovy, Spring Boot, Gradle, IntelliJ, Git, Jira

Spearheaded the development of the cross-cutting technology solutions for the new Rebates Platform, significantly reducing integration complexity for product teams. Developed shared libraries to expedite the adoption of common technology solutions and patterns, including Kafka, BigQuery, Google Cloud Storage, and HashiCorp Vault integration. Created reusable GitHub actions and workflows, streamlining CI/CD automation and reducing complexity. Implemented product specific solutions leveraging Kafka event streaming architecture. Migrated applications from Cloud Foundry to Google Cloud Platform (GCP).

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, VMASS, 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.

[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.

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)