

Makhin Mykola

Java Web Software Developer/Architect

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SUMMARY OF QUALIFICATION

IT professional with over 18 years of experience in Java web development, event-driven SOA and microservice software architectures, messaging systems, relational and «no-SQL» databases, general purpose programming and test automation. Over 10 years of experience managing development team efforts and mentoring junior developers - using common tools (e.g. JIRA), Scrum methodology and Agile manifesto as a general guideline.

PROFESSIONAL SKILLS

Core Java, databases and persistence (JDBC, Hibernate/JPA, Spring Data JPA, Spring Data MongoDB etc), Java web stack (from Servlet API and JSP+JSTL to Spring MVC, Play Framework v1.2, GWT), SOA and microservice software architectures.

Experience with various messaging systems (Apache Kafka, Amazon SQS+SNS, Rabbit MQ, Eclipse Mosquitto, Amazon IoT) and event-driven software architecture, caching and some distributed computing (Redis/Elasticache with corresponding libraries like Spring Data Redis, Apache Storm).

Experience developing custom DSL (including rich web editor for given DSL) and business rule engine with help of Xtext framework.

Experience with full-text search engines (ElasticSearch, SOLR/Lucene). Experience with ElasticSearch/LogStash/Kibana stack for log aggregation and processing, and Prometheus for cluster monitoring.

Experience with common RDBMS and non-relational DBs (MS SQL, MySQL/MariaDB, PostgreSQL, H2DB, MongoDB, Redis, DynamoDB).

Common third-party Java libraries and solutions (Feign, Sleuth, Lombok, MapStruct, JUnit, various Apache Commons including Commons HTTPClient, Spring IoC/Spring Boot, Apache Velocity, Thymeleaf, JSoup, Spring RestTemplate and JDBC Template), XML/XSLT/XPath, base HTML+CSS and JavaScript knowledge.

Experience using automated code validation tools (Sonar/SonarQube, Veracode).

REST-like APIs implementation, JSON and XML mappings (Jackson, Gson, JAXB), integration with third-party services via REST/OpenAPI (AKA Swagger) and gRPC (previously also SOAP/WSDL), GraphQL (with Spring GraphQL).

Experience integrating with Amazon Web Services (SQS, SNS, CloudWatch Events, EC2, S3, KMS, ElastiCache for Redis, IAM, RDS/Aurora etc).

Experience with Keycloak IAM and Hashicorp Vault PKI engine and secrets management engine.

Experience with common test automation libraries (JUnit, Mockito, Spring MockMVC etc), end-to-end and performance testing tools and frameworks (Apache JMeter, Testcontainers, Selenium).

Apache Tomcat (as Servlet/JSP container). Lesser experience with BEA WebLogic 10 enterprise container and JBoss application server.

Previously:

Experience with Java Portal Solutions: strong extensive experience with Liferay Portal (versions 5.2.3, 6.0, 6.1 both CE and EE), lesser experience with BEA WebLogic Portal.

In-depth knowledge of ElasticPath (versions 6.0.2, 6.1.2) Java e-commerce solution (including bug-fixing of it's code, changing existing and implementing additional features in it, and general administrating).

In-depth experience with Liferay enterprise portal solution (versions 5.2.3, 6.0 CE/EE, 6.1 CE/EE).

Lesser experience of Java desktop development using Swing (an example can be found at <http://www.archive.org/details/ThueInJava> - a Thue programming language interpreter with Swing-based GUI).

TOOLS

Eclipse IDE, IntelliJ IDEA. GIT (SourceTree, GitHub, Atlassian BitBucket etc), previously SVN, CVS, Jenkins, Atlassian JIRA+Confluence+Bamboo+Bitbucket. Apache Maven, Gradle, previously also Apache Ant. Docker (with understanding of under the hood technologies - e.g. control groups AKA cgroups, layered filesystems, oomkill etc), some Kubernetes tools (Minikube, Kubectl).

Various relational and non-relational DB management tools (e.g. Mongo Compass, DBeaver, MS SQL Server Management Studio, MySQL workbench etc).

Visual VM, previously YourKit and JProfiler.

Apache JMeter. JD java decompiler and other decompilers, Groovy shell, UNIX shell commands (BASH/ZSH scripting) and tools (e.g. grep, jq, ssh etc).

WORK EXPERIENCE

2022, October - 2024, June, EPAM Systems (development team leader, solution architect, scrum master):

Informational systems for integrating customer mobile devices and mobile apps with an customer management systems and an encrypted data distribution platform - with strict requirements for data security and privacy.

Responsibility: Design, document and develop a solution for customer management and secure data distribution. Lead a team of software developers. Manage development and delivery process using Scrum methodology. Mentoring of developers. Communication with customers. Providing reports.

Team size: 10-14 people in our team, about 30 people in total.

Tools and technologies: Java 17, Spring Security, Spring MVC, Spring Data JPA, Spring Data MongoDB, Spring Core, Spring Cloud OpenFeign, Spring Boot, Grafana, Amazon S3, Sonar, REST API, OpenAPI Generator, Keycloak, HashiCorp Vault.

2021, August - 2022, October, EPAM Systems (development team leader, solution architect, scrum master):

Implementing new functionality for a big consumer credit reporting agency.

Interviewing candidates, mentoring junior and middle developers. Performing technical leadership: working on project stories, assisting other developers on their stories, researching project related issues and technologies, communicating with the customer on a regular basis, contributing to the architecture of the solution, conducting Scrum meetings, creating reports.

Tools and technologies: Java 11, Spring Security, Spring MVC, Spring Kafka, Spring Data, Spring Core, Spring Cloud Sleuth, Spring Cloud OpenFeign, Spring Cloud Config, Spring Boot, Spring, REST API, OpenAPI Specification (OAS), OpenAPI Generator, Keys and Secrets Management, JPA, AWS Simple Queue Service, AWS Simple Notification Service, AWS Secrets Manager, AWS Key Management Service, AWS IAM, Apache Kafka, Amazon S3, Spring Cloud OpenFeign, Spring Cloud Config, Spring Boot, Spring, JPA, PostgreSQL, Oracle RDBMS, MongoDB.

Team size: 8 to 10 people.

2020, April - 2021, August, EPAM Systems (development team leader, scrum master):

Implementing new functionality for a big consumer credit reporting agency.

Interviewing candidates, mentoring junior and middle developers. Performing technical leadership: working on project stories, assisting other developers on their stories, researching project related issues and technologies, communicating with the customer on a regular basis, contributing to the architecture of the solution, conducting Scrum meetings, creating reports.

Tools and technologies: Java 11, Spring Session, Spring Security, Spring MVC, Spring Kafka, Spring Core, Spring Cloud Config, Spring Boot, Spring, JPA, AWS Simple Queue Service, AWS Simple Notification Service, Apache Kafka, SQL, REST API, OpenAPI, PostgreSQL, Oracle RDBMS, MongoDB.

Team size: 8 to 10 people.

2016, September - 2020, April, Symphony Solutions (senior software developer/tech lead, line manager):

Design of SOA/microservice based solution architectures.

Web-applications and middleware architecture and development - using Spring (Boot, MVC, Spring Data JPA), Hibernate, AWS (SQS+SNS integration, CloudWatch Events, RDS, S3), Apache Kafka, Apache Storm, RabbitMQ.

Design and implementation of custom business rules engine with custom DSL (with rich web editor) using Xtext framework.

Implementation of Elasticsearch/LogStash/Kibana log aggregation and processing, Prometheus monitoring and alerting.

Development and support of Google App Engine / Google Cloud Platform based web-application.

Leading and managing development team of 4-6 people.

2013, December – 2016, September, GlobalLogic (senior software developer):

Design of event-driven SOA solution architecture. Implementation using Java stack (Spring Boot, Spring Data JPA), AWS (SQS, EC2, S3, RDS), Quartz Scheduler, RabbitMQ + Spring AMQP, JUnit.

Web-applications and middleware development - using Play framework (1.2), SOLR/Lucene, REST-services, Google GWT (with Play framework integration). Development on TDD principles with fully automated testing (no manual QA) - via Play Framework integration with JUnit and Selenium WebDriver.

2010, October – 2013, December, Componence LLC (senior software developer/tech lead):

Enterprise web development with Liferay Enterprise Portal solution (JSR-168/JSR-286 portlets, Spring IoC+MVC, Liferay 5.2.3/6.0/6.1 CE/EE APIs+services) – over versions 5.2.3, 6.0 CE/EE, 6.1 CE/EE.

Leading a team of 2-3 developers.

2010, June – 2010, September, Componence LLC (senior software developer):

Study and Proof-of-Concept/demo development with Oracle ADF web applications and JSR-168 portlets with Oracle WebCenter 11g Suite.

2008, September – 2010, September, Componence LLC (software developer):

Enterprise web development with BEA AquaLogic Commerce Services / Elastic Path: enterprise commerce solution, based on Spring IoC, Spring Security (ACEGI), Spring MVC, Velocity template engine, Spring Remoting, Java Persistence API (OpenJPA), Apache Lucene/SOLR, Eclipse, BEA Weblogic 10. Enterprise web development with Componence Portlet Suite 1.6: enterprise portal solution based on BEA WebLogic Portal.

2005, December – 2008, September, SoftObject/InterObject (software developer):

Web development with Java Servlets/JSP, XHTML/JavaScript and WML, using My SQL and MS SQL RDBMS (via JDBC). Occasional TCL and PHP scripting.

2002, June – 2002, December, Institute of Liturgy, Ukrainian Catholic University (part time software developer):

DB development with “4-th Dimension” RDBMS using it’s proprietary DSL.

PROJECTS

GlobalLogic:

Verizon SHC - senior software developer:

Developing Spring (Boot, Data JPA, MVC, Messaging)/Hibernate based solutions and microservices for IoT support cluster with MQTT (using Eclipse Paho), AMQP (using RabbitMQ), automated functional tests (Jetty, Moquette for mock/test MQTT broker, Apache Qpid for functional tests AMQP broker).

Centralized JSON logging with ELK (ElasticSearch/LogStash/Kibana) and custom log entries fields.

WDS Cooper, Customer care/Self-care websites - developer:

Developing and supporting Play Framework v1 based websites and reusable Play Framework v1 modules.

WDS Cooper, Retail Framework - developer:

Developing Play Framework v1 + GWT based e-commerce website, integrating and tuning SOLR-based search index.

WDS Cooper, Agent Expert - developer:

Developing and supporting Play Framework v1 based customer support website, automating functional tests with Selenium WebDriver and Selenium Grid.

WDS Cooper: Ask Widgets - developer:

Developing JavaScript "thick client" applications with requirejs AMD, pub-sub, reactive templates with two-way binding, automated JS tests with mocha and chai.

WDS Cooper: AskDialog / MindMeld

Supporting Play Framework v1 and v2 based applications with REST-ful interfaces, automated tests, ML-trained naive Bayes classifier based classification engine.

Componence LLC:

Radboud University Portal - senior software developer, team leader:

Building custom Portlets with Radboud data sources integration (XML over HTTP with custom authentication, IMAP, Zimbra etc), authentication hook for integration with Radboud via SOAP WebServices. Required in-depth knowledge of Liferay portlets and hooks APIs as well as some research of customer’s data sources and third-party APIs (like Zimbra Calendar REST APIs). Building a replacement for Liferay’s chat portlet with Radboud users information source integration (JSON over HTTP). Set up of automated build and automated deployment plans.

Kluwer Affiliate Websites Portals (three websites with similar functionality) - senior software developer, team leader:

Building Liferay 6.1 EE powered Portal with significant customizations to Liferay's out of the box portlets (Liferay "hooks") as well as some custom functionality. Required in-depth familiarization with Liferay Portal solution functionality, APIs and internals. Included heavy customization and sometimes re-building of Liferay's out-of-the-box portlets. Replacing existing functionality for retrieving and exporting content. Building functionality for importing content from legacy website's DBs, scheduled import of content from external "XML over HTTP" sources etc. Set up of automated build and automated deployment plans.

Europeana Knowledge Portal - senior software developer, technical leader:

Building Liferay 6.0 CE powered Portal with custom functionality, migrating legacy (Liferay 5.2.3) portal's data into new one. Required in-depth familiarization with Liferay Portal solution functionality, APIs and internals. Setting up of automated build and automated deployment plans.

Lesser Liferay projects (Kluwer Authors Portal, Kluwer The Box) and assistance to other projects (DeZaak):

Modifications to Liferay-SOLR integration plugin, assistance on Liferay indexing/searching issues. Developing portlets for Liferay powered intranet websites - creation of Liferay WebContent items from user-submitted data and from external data (XML over HTTP) updated on schedule, presentation of the data. RND and data transfer on automation of Liferay Plugins builds.

Kluwer Online Marketing and Services - senior software developer, technical leader:

Developing an enterprise web-shop based on BEA AquaLogic Commerce Services (ALCS) 6.0.2 / ElasticPath 6.1.2 solution, which included development and customizing of system's original functionality: Spring MVC controllers + Velocity templates, web-services, SOLR/Lucene searches logic, extending and fixing ElasticPath core classes, plain Java coding. Set up of automated build and automated deployment plans, automated commits+tags of build results to customer's SVN (via Ant scripts with embedded Groovy "scriptlets").

Developing an enterprise portal based on Component Portlet Suite / BEA Portal solution and Apache Camel. My role mostly included development and bug-fixing of Portlets, which required almost no additional knowledge besides plain Java and Servlet API.

Migrating changes and implementations done for BEA ALCS 6.0.2 based shop to 6.1.2 version of ElasticPath e-commerce solution.

Rebuilding Kluwer Portal using Liferay 5.2.3 Portal solution. Required in-depth familiarization with Liferay Portal solution functionality, APIs and internals.

Kluwer internal usage websites - developer, technical leader:

Building some custom portlets for Liferay 6.0 EE to be used in several customer's internal websites. Built using JSR-286 Portlets + some Liferay's APIs.

Oracle WebCenter PoC:

Developing Proof-of-Concept solutions with Oracle WebCenter 11g Suite: Oracle portlet bridge powered JSR-168 portlet providers, Oracle ADF powered "mashup" web application (with usage of LinkedIn OAuth authentication, LinkedIn API and Twitter API via third-party libraries).

Leading development of backend, portlets and themes for Kluwer Portal re-implementation based on Liferay Portal solution.

SoftObject/InterObject:

Echovox MSDP (Switzerland), as developer – Mobile portals: developing several WAP sites and portals backed by Java/RDBMS (MySQL, MS SQL) on server side. Portals were created using XHTML markup language and converted to XHTML MP (XHTML Mobile Profile) or WML using Drutt CAS (Content Adaptation

System). Development included enhancing original Drutt XSLT tables used for markup conversion. Several WAP sites were interacting with MSDP WAP Session Manager to control access to chargeable content. Some WAP sites functionality included gathering various statistical data to be later available to site operator via MSDP – Reporting component.

Echovox MSDP (Switzerland), as developer – Reporting: developing a Java/RDBMS backed web application as a component of MSDP platform that was used to retrieve MSDP application's statistics data from DB, calculate summarized statistics, and present it to user as chart or table data, including different features like filtering data on some parameters and export to Excel sheets.

Echovox MSDP (Switzerland), as developer – Generic Reporting: developing a Java/RDBMS backed web application similar to MSDP Reporting, but with a different approach to obtaining statistics. Statistics data was obtained from several DBs and calculated for several applications altogether.

Echovox MSDP (Switzerland), as developer – Stats Aggregator: developing a Java/RDBMS backed web application that was acting as data prefetching service for simplified version of MSDP Generic Reporting. The service was obtaining statistical data from MSDP applications' databases, pre-calculating some generalized statistics, and fetching it into a database to be later retrieved and displayed by simplified version of MSDP Generic Reporting.

Echovox MSDP (Switzerland), as developer – WAP Session Manager: developing a Java/RDBMS web application that was used as a session manager for WAP portals, allowing users to have credit based access to some content of WAP portals. The application allowed storing/obtaining information about user session with credit parameter and some arbitrary parameters, and checking/decreasing/updating user's session credit. Application's interface was XML over HTTP (required by customer).

Echovox MSDP (Switzerland), as developer – Orange Portal NewsFetcher: enhancing and implementing change requests to application based on TCL scripts, that was obtaining ZIP archived XML files from FTP server, parsing and fetching data from these XML files to MySQL database.

Echovox MSDP (Switzerland), as developer – CAS Profiles Fetcher: Java based desktop application (with Swing based GUI) for parsing ZIP archived XML files that contained information on mobile devices referred to as "mobile device profile", and fetch obtained data into DB (MySQL).

Echovox MSDP (Switzerland), as developer – CAS Profiles TAC numbers updater: Java based desktop application (with Swing based GUI) for parsing Excel sheets containing mobile devices TAC (Type Allocation Code) numbers information and updating mobile devices profiles (stored as ZIP archived XML files) with obtained TAC numbers information.

EDUCATION

Master degree in Computer Sciences (2000-2006, National University "Lviv Polytechnic", Lviv, Ukraine).

LANGUAGES

Fluent in technical, written and spoken English (C1); native Ukrainian and Russian; intermediate spoken Polish.

MISCELLANEOUS

Attended for over 5 years and held a position of an officer for over 4 years in english-language non-profit learn-by-doing public speaking workshop "Lviv Toastmasters club" (regular practices of communication, foreign language and organizational skills).

Participated in short-term on-site work with customers (in Netherlands and USA).