

Andrey Karazhev

Belarus. Minsk, 220039, Korotkevich st. 11 - 12

Phone: +375(29)7700268

E-mail: karazhev@gmail.com

LinkedIn: <https://linkedin.com/in/akarazhev>

Site: <https://akarazhev.github.io>

Telegram: @akarazhev

Skype: andrej.karazhev

SOFTWARE ENGINEER

General Experience: Software engineer with 17 years of hands-on experience in following fields: software development and design, team and technical leading, project management and delivery. 10 years of cooperation with distributed teams.

Areas of responsibility: Software development, team and technical leading, architecting, mentoring.

Soft Skills: Communication, leadership, negotiation, problem-resolving skills.

Hard Skills: System design and development of web and mobile apps, micro-service applications, tools, utils, scripts and libraries.

Achievements: 22 commercial projects, 13 satisfied clients, 5 open-source projects, 47 articles.

Education: Technical degree and bachelor's degree in software engineering. Completed and earned 12 courses and certificates.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript.

Frameworks: Java SE/EE, Spring Framework, Angular, React.

Databases: MySQL, PostgreSQL, DB/2, H2, SQLite.

No SQL: MongoDB, Neo4J, InfluxDB, Elasticsearch.

Servers: Tomcat, Jetty, JBoss, GlassFish, Httpd, Nginx, Netty, NodeJS.

MOM: ActiveMQ, RabbitMQ, Kafka.

IDEs: IntelliJ IDEA, Eclipse, NetBeans, Xcode.

OS: Mac OS X, Unix/Linux, Windows, iOS, Android.

Web: HTML, CSS, XML, JSON.

Scripting: Bash, SQL.

Containers: Docker, Podman.

Orchestration: K8S, Docker Swarm.

Clouds: AWS.

Other: TDD, BDD, UML, Unit and Integration tests.

BUSINESS SKILLS

Industries: IT, Telecommunication, Education, Advertisement, Entertainment.

Methodologies: IT-Consulting, Outsourcing, Project Leadership/Project Management, Software Engineering, System Design and Documentation, Team Development, Coaching, Mentoring, User Documentation, Wiki Development.

Project Management: Kanban, Scrum, Lean, SAFe.

SIGNIFICANT COMMERCIAL EXPERIENCE

Period: July 2014 – till now

Company: Specific-Group GmbH. Belarus, Minsk

Position: Lead/Senior Software Java Developer

Project # 6: IT-PS Test Automation

Customer: Specific-Group GmbH. Belarus, Minsk

Test automation solution based on the IT-PS Performance Monitoring project.

Role: Project Manager:

- Defined and controlled the development scope.
- Presented the solution to a customer.

Environment:

- Java, Test NG, Apache Maven, Selenium, Selenide, Allure Reports, Sikuli Script.

Project # 5: CR CA Tool, Pantheon Database, New Database for Imh

Customer: Specific-Group GmbH, Belarus, Minsk

Cost Reduction Cost Avoidance Tool. Pantheon Database. New Database for Imh.

Role: Software Architect:

- Took part in preselection process: analyzed and elicited requirements, prepared architecture design, modules and functions, estimated efforts, wrote documentations and presentations.

Environment:

- Java, Spring Framework, MySQL, MSSQL, Spring Boot, Tomcat, Hibernate.

Project # 4: Development of ITPS Monitoring System

Customer: IT Power Services GmbH, Austria

ITPS Monitoring System is a new application that allows ITPS to:

- Collect the time series parameters from wide set of real and virtual devices.
- Filter data input from undesired and unauthorized data flows.
- Provide smart data visualization tool based on diagrams and data tables.
- Provide the way to define various sets of virtual/real devices for easy access with graphical data representation.
- Provide multi user authentication/authorization.
- Export data according to user point of interest.
- Data monitoring, alert management and execution.
- Collect various logging information.
- Provide the way to represent and export logging information.
- The application itself consists of a frontend and a backend: the frontend is the presentation layer. Backend is responsible for data gathering, storing, monitoring, alerts execution.

Role: Key Software Developer:

- Analyzing requirements, developing application architecture, performing infrastructure tasks.
- Implementing on the back-end side: core, modules, services, and controllers.
- Implementing unit and integration tests, fixed bugs.

Environment:

- Java, Spring Framework, Spring Boot, Tomcat, Elasticsearch, REST, Freemarker, Bootstrap, Angular JS, JQuery, Inspinia, D3, RGraph, NVD3, Git.

Project # 3: JIRA Automated Ranking Plug-in

Customer: Automatic Software GmbH, Austria

The JIRA automated ranking plug-in will provide automated scheduled or on-create or update ranking of issues based on a given formula on a JIRA Agile Kanban or Scrum board.

Role: Key Software Developer:

- Implemented improvements for a ranking algorithm. Extended services, refactored source code.
- Prepared build packages, performed tests.

Environment:

- Java, Atlassian SDK, Maven, Git.

Project # 2: Estimation Tool

Customer: Specific-Group, Austria

The internal estimation tool helps to estimate the cost, time, and effort required to satisfy a given set of system requirements and determine the best strategy for designing and implementing software or systems project.

Role: Senior Software Developer:

- Moved the project from Amazon EC2 into an internal data center: installed and configured AS JBoss, MySQL, Httpd with SSL and proxy. Reconfigured a continuous integration server.
- Migrated from MySQL on IBM AS400.

Environment:

- Java EE, AS JBoss, MySQL, IBM AS400, Git, Maven, GWT, JSF, JSP.

Project # 1: Electronic Vehicle Registration: Kapsch EVR**Customer: Kapsch TrafficCom, Austria**

Electronic Vehicle Registration (EVR) is a solution concept offering centralized management of vehicle registration data and automated monitoring for registration compliance. The solution comprises electronic tags attached to the vehicles, allowing a secure and efficient identification of each vehicle. The monitoring for compliance is accomplished with fixed and mobile roadside equipment, including electronic tag readers and Automatic Number Plate Recognition (ANPR) cameras. The collected data can be used to verify the registration compliance in a secure and reliable way. Registration information is provided through external interfaces by authorities, insurance companies and other stakeholders.

Role: Senior Software Developer:

- Analyzing requirements, participating in the development of application architecture.
- Implemented on the back-end side: models, services and controllers.
- Implemented prototypes on the front-end side.
- Implemented functional tests, fixed bugs.

Environment:

- Java, Spring, Hibernate, Maven, Tomcat, PostgreSQL, ActiveMQ, REST, JAX-RS, CXF, MongoDB, Drools Fusion, CouchDB, Swagger, Docker, JSP, CSS, HTML, JS, JQWidgets.

Period: October 2012 – June 2014

Company: Tula Consulting. Belarus, Minsk

Position: Software Developer/Senior Software Developer

Project # 3: kaboodle.com**Customer: kaboodle, USA**

Kaboodle is a social shopping community where people discover, recommend and share products. Kaboodle's powerful shopping tools allow people to organize their shopping through lists, discover new things from people with similar style, get discounts on popular products and find best prices. At the heart of Kaboodle is a fun and engaging community of people who love to shop. Community members create and join groups, share advice, feedback and product suggestions and personalize their profiles with polls and other widgets.

Role: Key Developer/Presales Specialist:

- Analyzed the project structure: modules and architecture. Learned customer's requirements.
- Worked as a presale specialist: checked a possibility for cooperation.

Environment:

- Java, Spring, Hibernate, Ant, Tomcat, MySQL, Apache Lucene, REST, JSP/JSPX, CSS, HTML, JS.

Project # 2: access-mc.com**Customer: Access Media Corp., USA**

The project opens doors to Distribution+Discovery+Conversion. Access Media developed a proprietary native content marketing technology, specializing in premium content distribution across publishers on the web. It is creating discovery + conversion through true contextual relevancy.

Role: Senior Developer/Key Developer:

- Analyzed requirements, participated in the development of application architecture.
- Implemented models, services and controllers, fixed bugs. Implemented functional and integration tests.
- Organized and launched a continuous integration server, automated processes: tests, build, deploy.
- Prepared distributed system environment, implemented necessary bash-scripts.
- Coordinated a front-end developer and QA engineers. Organized regular meetings with a team and the customer.

Environment:

- Java, Spring Framework, REST, JDBC, MySQL, JSON, Amazon Web Services, Linux, Tomcat, RabbitMQ, Git, Maven, IntelliJ IDEA, PHP, JS, HTML, CSS.

Project #1: iOS/Android clients for “Pindle for Life”**Customer: Pindle.com, Mexico**

Pindle for Life is a social networking service allows users to create their personal and business accounts share them between users, to do introductions and conversations and so on.

Role: Mobile Developer:

- Analyzed requirements, developed architecture of the application.
- Developed UI including custom controls, implemented application logic.
- Made new builds, distributed them among costumers.
- Launched a continuous integration server, automated processes: build, sign, deploy.

Environment:

- iOS SDK 5.0 – 7.0, Cocoa, Android, Linux, Xcode, IntelliJ IDEA, Mac OS X, Git, TestFlight, Unfuddle, TeamCity.

Period: June 2011 – October 2012**Company: Private Entrepreneur. Belarus, Minsk****Position: Contractor/Remote Software Engineer****Project # 3: Management Node System (MNS 2.0)****Customer: RC IKT d.o.o, Slovenia**

The product is a key component for managing and monitoring the communications network and the services it delivers. The product is not limited to Iskratel network elements; it offers the opportunity to manage and monitor other vendors' equipment also.

It is not the purpose of the product to offer full management of all the network elements in the network. Instead, the product supports the monitoring and maintenance by executing specific scenarios, embedded in the product. As such, the product represents an infrastructure and an environment for a number of applicative building blocks supporting different aspects of the product's functionality.

Project # 2: Open MN service: OSS/BSS interface**Customer: RC IKT d.o.o, Slovenia**

The OSS/BSS interface is implemented by the Open MN service, which runs on top of the SI3000 MNS management system. Methods (operations) are divided into groups according to the business process terminology:

- “Collect Management Information & Data (Inventory)”: methods for retrieving data about Nodes, Boards, VLANs, Filters and other resources.
- “Implement, Configure & Activate Service and Resource (Provisioning)”: methods for modifying Port properties and for saving the modified configuration.
- “Report Resource Performance (Assurance)”: methods to retrieving current operating values for a particular Port.
- “Correct & Recover Resource Trouble (Assurance)”: methods for resetting a particular Board or Port.

Project # 1: LA6112AX**Customer: RC IKT d.o.o, Slovenia**

LA6112AX is a product for managing SI3000 Peso. The SI3000 Peso is 32 POTS port VoIP terminal adapter (Gateway).

Role: Software Engineer:

- Wrote functional specifications and design documents including UML diagrams.
- Developed a wrapper for I/O operations throughout SNMP.
- Implemented java beans, handlers, components and controllers for profiles: VLAN, DSL, Alarm, L2CP, Service Flow, Multicast, Services, ACL.
- Implemented service methods and classes to provide the business logic of Assurance, Inventory, Provisioning services for Ethernet over VDSL, Ethernet over Fiber and BA adapters.
- Implemented java beans, handlers, components and controllers to provide a management of Plain old telephone services (POTS).

- Designed GUI. Developed Lumia, Pono, Pono XL adapters for network communication between different types of hardware modules. Developed unit tests. Tested functionalities.

Environment:

- Own framework based on Java technologies: XML, JSP, Servlets, Web-services, SNMP, RMI, JDBC, Vaadin/GWT, Swing, Linux, Tomcat, JBoss AS, SVN, Maven, IntelliJ IDEA.

Period: 2007 – 2011

Company: Iskrabel. Belarus, Minsk

Position: Software Engineer

Project group # 3: AN

Customer: ISKRATEL d.o.o, Slovenia

AN6112EV (Ethernet over VDSL), AN6112EF (Ethernet over Fiber), AN6112AX is a product that presents the next generation of SI3000 MSAN. It brings a new generation of Ethernet Switch Blades and new access blades in all major broadband access technologies: ADSL2+, VDSL2 and FTTH. All new blades support single IP mode of operation of the system. The product also brings a new generation of shelves (MEB) with double bandwidth (double number of GbE Backpanel Links) and 10GbE backpanel connectivity. This (version of the) product is called SI3000 Lumia.

Project group # 2: CS

Customer: ISKRATEL d.o.o, Slovenia

CS6112, CS6113, CS6114: CS is NGN call server implemented on CMF (MSAN – Multi Service Access Node) or ATCA HW platform with Linux OS and Solid data base.

Project group # 1: MG

Customer: ISKRATEL d.o.o, Slovenia

MG6112, MG6113, MG6114: MG is the Signaling and Media Gateway (SMG) product for world market. It is used as an universal bridging component between the legacy TDM (circuit-switched) network and the packet- based network; It enables profitable, high – performance packet trunking with the full traditional voice service set that service providers demand and have come to expect.

Role: Software Engineer:

- Wrote functional specifications and design documents including UML diagrams.
- Developed wrapper for I/O operations throughout SNMP.
- Implemented java beans, handlers, components and controllers to provide a management of Virtual Local Area Network (VLAN), Dynamic Host Configuration Protocol (DHCP), Access Control List (ACL) and Spanning Tree Protocol (STP).
- Extended implemented functionalities, developed back-end and front-end.
- Designed GUI. Developed unit tests. Tested developed functionalities.
- Provided guarantee assurance in productions: bug fixing, code optimization, refactoring.

Environment:

- Own framework based on Java technologies: XML, JSP, Servlets, Web-Services, SNMP, RMI, JDBC, Vaadin/GWT, Swing, Linux, SVN, IntelliJ IDEA.

2005 – 2007

IT Engineer. MSHRC. Belarus, Minsk

Role: Administrator/Web Developer:

- Administrated networks and workstations.
- Provided stable working of HTTP/FTP/proxy servers.
- Supported the web site on PHP language and MySQL database.

EDUCATION

2005 – 2011 National Technical University: Software of information technologies. Belarus, Minsk.

2001 – 2005 Higher radio engineering college: Software of information technologies. Belarus, Minsk.

RELEVANT COURSES AND CERTIFICATIONS

2021. DataCamp.com. Python for Data Science.
2020. FreeCodeCamp.com. Responsive Web Design.
2020. Udemy.com. Java Multithreading, Concurrency & Performance Optimization.
2020. Udemy.com. Docker - Hands On for Java Developers.
2020. Udemy.com. Data Structures and Algorithms: Deep Dive Using Java.
2020. Udemy.com. The Java Design Patterns Course.
2019. Udemy.com. Java Programming Masterclass for Software Developers.
2015. Venbest Recruiting. IT People Management Skills.
2010. Belhard. Java EE. Belarus, Minsk.
2007. IBA. Java SE. Belarus, Minsk.
2007. Sun Microsystems. Java SE. Belarus, Minsk.

LANGUAGES

English: upper-intermediate.
Russian: native.