PROFFESSIONAL RESUME

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| **Name**: Kaloyan Mironov PhD | **Role**: Senior Developer  (Grade SE) |

# Summary

Kaloyan Mironov is a leading software engineer with 8+ years of experience in the IT industry. He started his career as a researcher and lecturer in Robotics and various fields of Computer science. After achieving his Ph.D., he transitioned to a commercial IT career as a Java developer and became an engineering team leader in a few years.

During his career growth, Kaloyan managed to achieve the most valued certificates from all leading IT vendors – Oracle, AWS, Microsoft, The Open Group and Axelos. For the past two years, he has been training intensively in the field of Software architectures and IT service management (ITIL).

As a software engineer, he was involved in all phases of the software development lifecycle, mostly in designing and implementing complex functionalities. Kaloyan has a strong background in back-end projects like distributed systems and cloud-based solutions.

Kaloyan joined Endava at the start of July 2022 as a Senior Developer.

# Domain experience

Kaloyan has experience in various business domains such as: healthcare, insurance industry, automotive design, ERP - business process management and automating workflows. As a software engineer, he was involved in various enterprise-scale projects for clients like VW and Guarantee Fund (MTPL regulator in Bulgaria).

Kaloyan has experience with managing people and high-level business requirements. As an engineering team leader, he was able to build and lead a team in order to deliver specific system modules.

In addition to software engineering, for the past year and a half, Kaloyan was also playing the roles of mentor and technical interviewer.

# Core technical skills

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| **Programming languages & technologies:** | * Java, Spring (Boot, Security, Data), AWS, Docker, Kubernetes, Kafka, Hibernate, REST, JWT, OAuth |
| **Testing** | * JUnit, Selenium, JMeter, SonarQube, Test containers |
| **Versioning systems:** | * Git, SVN |
| **Messaging:** | * RabbitMQ, AWS SNS and SQS, IBM WebSphere |
| **Servers:** | * Apache Tomcat, WildFly/JBoss, NginX, Jetty/Netty |
| **Continuous integration:** | * Pipelines in GitLab and AWS, Jenkins, GitHub Actions |
| **Defects tracking tools:** | * Jira, GitLab |
| **Cloud providers** | * AWS, Digital Ocean |
| **Databases** | • IBM DB2, MySQL, MariaDB, H2, Redis, Hazelcast, Neo4j |
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# Education and training

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| **Qualifications:** | **Education:**   * 2014 – 2018: PhD in Informatics and Computer Science, University of Ruse * 2016: Doctoral specialization, Tallinn University of Technology * 2011 – 2012: Master of Software Engineering, University of Ruse * 2007 – 2011: Bachelor of Computer Science, University of Ruse   **Certificates:**   * Oracle Certified Master, Java EE Enterprise Architect * Oracle Certified Expert, Java EE Web Services Developer * Oracle Certified Professional, Java SE Programmer * Java EE 7: New Features (Oracle course) * AWS Certified Solutions Architect * AWS Certified Cloud Practitioner * AWS Partner: Technical Accreditation * TOGAF 9 Certified * Certified Solution Architect - Level 1 (Professional Development Milestone) * Certified Solution Architect - Level 1 (Professional Communication Milestone) * ITIL4 Foundation Certificate in IT Service Management * ITIL3 Foundation Certificate in IT Service Management * SEI Software Architecture Professional Certificate * SEI Service-Based Architecture Professional Certificate * SEI Software Architecture Principles and Practices * SEI Software Architecture Design and Analysis * SEI Designing Modern Service-Based Systems * SEI Design Guidelines and Patterns for Microservices * SEI Documenting Software Architectures * University of Alberta - Software Design and Architecture Specialization * Red Hat Delivery Specialist - Enterprise Integration * Red Hat Delivery Specialist - Agile Integration * Red Hat Delivery Specialist - Cloud-Native Development * Microsoft Certified Solutions Expert: Cloud Platform and Infrastructure * Microsoft Certified Solutions Associate: Windows Server 2012 * Microsoft Certified Solutions Associate: Windows Server 2008 * Microsoft Certified IT Professional: Enterprise Messaging Administrator on Exchange 2010 * Microsoft Certified IT Professional: Enterprise Administrator on Windows Server 2008 * MENSA member * Association of Enterprise Architects (AEA) member * IASA member * Axelos member |
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# Recent projects

ENDAVA / consedro health semantics (2022)

The project aimed to support a wide range of health-related services used by different target groups – medical organizations and experts, patients and medical insurance providers. The project was organized around a graph-based data storage (Neo4j). Once the FHIR-compliant data was ingested into Neo4j, the analytics algorithms (AI-based) were triggered. The project was deployed in AWS.

**Tasks:**

* Designing and setting up back-end project structure
* Designing and implementing data ingestion module for processing FHIR data
* Implementing Neo4j plugins
* Implementing custom stored procedures in Neo4j
* Optimizing and redesigning the implementation of graph-based algorithms in Nei4j
* Building AWS environment and connecting it with the ingestion module (S3, SNS, SQS)
* Implementing an algorithm for detecting error cases in Neo4j and representing them as error graphs
* Designing and implementing APIs for exposing the functionalities to the front-end
* Attending refinement meetings with the client
* Performing code reviews
* Planning and assigning tasks to team members
* Mentoring team members

**Technical Skills and Tools**: Spring Boot, Docker, Neo4j, AWS – CodeBuild, CodeCommit, SNS, SQS, S3, API Gateway

MUSALA SOFT / ENGINEERING TEAM LEADER (2021-2022)

As an engineering team leader, Kaloyan was able to work for one of the leading automotive manufacturers in Europe. The project aimed to optimize the operational costs and to improve the workflow related to the vehicle electronic design process in the company.

**Tasks:**

* Leading a team responsible for the back-end part of the project
* Worked with all stakeholders in order to capture business requirements and transform them to detailed tasks
* Preparing work breakdown structure documents
* Providing task estimates and planning sprint tasks
* Provided detailed technical and architecture documentation
* Organizing meetings with the client and providing feedback or discussing new requirements
* Mentoring and evaluating team members

MUSALA SOFT / Senior Software Engineer (2020-2021)

As a Senior Software Engineer, Kaloyan was responsible for all activities related to the phases of design, development and delivery of the project modules.

**Tasks:**

* Providing software architecture design proposals
* Preparing Software Architecture Documents (SADs)
* Drawing UML diagrams
* Designing and implementing APIs
* Designing and implementing custom caching layer
* Setting up queues and integrating all related project modules with them
* Performing DB layer optimizations
* Designing and setting up high-level project structures and the integration between them
* Dockerizing the project components and building custom Docker images
* Assuring code quality – preparing unit and integrational tests
* Performing load/performance tests with JMeter
* Preparing CI/CD pipelines in GitLab
* Setting up cloud-based deployment environments
* Supporting clients
* Mentoring colleagues