



MARKO POPOV

ASPIRING JAVA DEVELOPER | MECHANICAL ENGINEER



PROFILE

Master Mechanical Engineer with extensive experience in problem-solving, team leadership, and data analysis, now transitioning into software development with a focus on Java. Strong planning and analytical skills, eager to contribute to innovative projects. Actively enhancing programming expertise through self-education and hands-on development projects.



WORK EXPERIENCE

Military Officer | 9 years

2016 - PRESENT

MECHANICAL ENGINEER

- Led teams and coordinated complex operations.
- Developed strong problem-solving and analytical skills.
- Managed data and strategic planning in high-pressure environments.



PERSONAL PROJECTS

Airport Gate Management System - Java Spring Boot Project

- Developed a monolithic RESTful Java Spring Boot application to efficiently manage airport gate allocation and flight assignments. Implemented thread-safe, database-driven logic with PostgreSQL and Hibernate, automated availability checks, and JWT-based role security.
- Technologies: Java, Spring Boot, Hibernate, PostgreSQL, REST API, JWT, Docker, Swagger, JUnit, Mockito

Production-Ready Patient Management System (In Progress)

- Developing a scalable, microservices-based patient management system using Java Spring Boot, with secure APIs, gRPC/Kafka communication, Dockerized deployment, and AWS infrastructure.
- This project highlights hands-on experience in modern backend development, cloud deployment, and integration testing, reflecting a strong commitment to continuous learning and mastering advanced software engineering practices.



EDUCATION

Master of Mechanical Engineering

2016 - 2019

University of Belgrade, Belgrade, Serbia

GPA: 9.35

Bachelor of Mechanical Engineering

2012 - 2016

University of Defense, Belgrade, Serbia

GPA: 8.61



COURSES

Java Programming: Fundamentals (Code with Mosh)

Java Programming: Object-Oriented Programming (Code with Mosh)

Java Programming: Advanced Topics (Code with Mosh)

Java Data Structures & Algorithms (Udemy) - In Progress

CONTACT

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SKILLS

- Java 17
- Spring Boot (REST, Security, JWT)
- Hibernate / JPA
- PostgreSQL
- JUnit 5 & Mockito
- Maven (build automation)
- Docker & Docker Compose
- Jib (containerization)
- Linux / Shell scripting
- Git & GitHub (version control)
- Swagger / OpenAPI

SKILLS IN PROGRESS

- Data Structures & Algorithms
- HTML / CSS
- Microservices architecture
- Protocol Buffers (Proto / gRPC)
- Apache Kafka
- Cloud (AWS basics)
- CI/CD pipelines

LANGUAGES

- Serbian (Native)
- English (Fluent)
- Russian (Basic)