MIKHAIL SHYTSKO

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SUMMARY

Product-oriented backend developer with deep experience with Spring Boot and a passion for building scalable systems that solve real user problems. Adept at applying clean architecture and rapid iteration to achieve meaningful results. *Focused on creating value, not just writing code.*

WORK EXPERIENCE

Software Engineer, The Designery s.r.o.   Apr 2025 - Present

Project: Mental Health Platform

- Designed and built reactive backend applications on **Spring WebFlux** using **Google Cloud Platform** ecosystem.
- Successfully implemented on-the-fly encrypted big data streaming.
- Led the project development team, while also being an architect and DevOps specialist at the project.

Worked with: Spring Framework, Firestore, Firebase Auth, Cloud Functions, Docker, GitLab CI/CD

Software Engineer, VitSBS   May 2024 - Oct 2024

Project: Automated Certification System & Experimental IoT for Air Quality

- Built an equipment certification automation platform using **Spring Boot** and **PostgreSQL**, reducing accounting errors by **45**% and accelerating workflow by **30**% by eliminating manual processes.
- Integrated numpy via **GraalPy** into **Spring Boot** service to analyse product trends, increasing data processing speed by **25**% and accelerating decision making by the product team.
- Developed a modular audit library on **Spring AOP**, improving transaction traceability and reducing post-processing time by **15**% for certifications by region and hardware type.

Worked with: Spring Framework, PostgreSQL, MongoDB, ESP32, Tasmota, Paho MQTT, Vaadin, WebSockets, Spring AOP, Spring MQTT, GraalVM, iText, Docker, GitHub, GitHub Actions, Maven, Junit 5.

Backend Developer Intern, ArenaPizza   Oct 2023 - Mar 2024

Project: Order Management & Logistics Optimization

- Implemented a secure **REST API** on **Spring Boot** with **OAuth2** and **JWT**, improving customer data security and compliance.
- Improved shift scheduling with feature-toggle, reducing update failures by **40**% and simplifying in-store deployment.
- Developed a QR coupon system with **ZXing**, increasing customer engagement by **25**% and increasing promotional sales by **15**%, improving marketing effectiveness.

Worked with: Spring Framework, OAuth2, JWT, PostgreSQL, Redis, ZXing, GitHub, GitHub Actions, Maven, Mockito, Junit 5.

PROJECTS

JHMS | High-Performance JVM & System Monitoring API   Oct 2024 - Apr 2025

- Created a prototype **API** for monitoring **JVM** and system metrics using **GraalVM**, **Project Loom** and **Project Panama**, reducing memory and CPU consumption by **30**% compared to peers.
- Eliminated performance bottlenecks by optimising **virtual threads** and **native calls**, making the solution applicable for **resource-intensive** systems.

Worked with: Java 23, GraalVM, Project Loom, Project Panama, Windows and Linux kernel functions, Java WebServer

Endor | IoT Platform for Energy Efficiency   Oct 2024 - Jan 2025

- Developed an **IoT** platform on **Spring Boot** and native **Kotlin** application for energy management, reducing energy costs by **15**% in pilot implementations.
- Implemented asynchronous communication via **Spring WebFlux** and **MQTT**, ensuring stability under uneven device load.
- Configured horizontal scaling with **Docker** and **GitHub Actions**, achieving high availability for critical system elements.

Worked with: Spring Boot, Netflix DGS, GraphQL, Paho MQTT, Spring WebFlux, PostgreSQL, Docker, GitHub Actions

EDUCATION AND ADDITIONAL INFORMATION

Technical University of Kosice, FEI, Informatics   Sep 2022 - Present

Personal achievements:

- Successfully participated in various hackathons with <u>Argon</u> team, including <u>Erste Digital 2024</u>, <u>GymBeam Data Hackathon</u> and <u>T-Systems Hackathon 2024</u>
- Founded project HackPN and successfully organised 2 hackathons at it - offline one in the city of Piešťany and online one with <u>UpliftMedia</u> for Slovak and American Students.
- Was qualified for participation in <u>UVP Startup Accelerator</u> with project **meetera**
- Languages: Russian(native), Slovak(professional working proficiency), English(C1 level, IELTS Acedemic band 8.0, test report number **24SK501435SHYM005A**)