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

- Launched a monolithic application on **Spring WebFlux** and **Google Cloud Platform**, capable of handling over **15k RPs** at peak load.
- Implemented streaming data encryption 'on the fly', reducing unauthorised reads to **0** and ensuring 100% EU GDPR compliance.
- Led a team of three developers and automated CI/CD in GitLab, reducing deployment time from **12** minutes to **4** minutes without downtime.

Worked with: Spring WebFlux, 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

- Automated equipment certification, reducing the time required for document certification by almost **50**%.
- Implemented **GraalPy** trend analytics, thereby accelerating product decision-making by **25**%.
- Created a **Spring AOP** audit library, reducing the search for internal transaction data and ensuring reliable collection of critical logs.

Worked with: Spring Framework, PostgreSQL, MongoDB, Vaadin, Spring AOP, GraalVM, Docker, GitHub, GitHub Actions

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.
- Optimised the shift schedule using feature toggles, thereby optimising staff performance and reducing the time required to approve work shifts from **5** to **2** days.

Worked with: Spring Framework, OAuth2, JWT, PostgreSQL, Redis, GitHub, GitHub Actions, Maven

PROJECTS

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

- Created **GraalVM-based** + **Project Loom** monitoring tool, reduced JVM overhead by **15**% and processed **50k RPs**
- Eliminated performance bottlenecks by **optimising** virtual threads and native calls, making the solution applicable for **high-loaded** & **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, reducing venues energy costs by **15**% in pilot implementations.
- Implemented asynchronous communication via **Spring WebFlux** and **MQTT**, ensuring stability and scalability under uneven device load.
- Configured horizontal scaling for **Docker**/**GitHub Actions** without incidents at **x2** traffic.

Worked with: Spring Cloud, GraphQL, Paho MQTT, PostgreSQL, Influx DB, Docker, GitHub Actions

EDUCATION AND ADDITIONAL INFORMATION

Technical University of Kosice, FEI, Informatics — Sep 2022 - June 2025

Personal achievements:

- Successfully participated in various hackathons with Argon team, including Erste Digital 2024, GymBeam Data Hackathon and T-Systems Hackathon 2024
- Founded HackPN - organised 2 offline/online hackathons, attracting 100+ participants from Slovakia and the USA.
- Languages: Russian(native), Slovak(professional working proficiency), English(C1 level, IELTS Acedemic band 8.0, test report number **24SK501435SHYM005A**)