MIKHAIL SHYTSKO

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SUMMARY

Product-oriented backend developer with deep experience in Spring and passion for building scalable systems that solve real user problems. *Focused on creating value, not just writing code.* Find more detailed information on my personal page.

WORK EXPERIENCE

Solutions Engineer, Slovenska Sporitelna, a.s. — July 2025 - Today

Project: Internal banking projects

- Took a one-page business spec and independently delivered a production service: identified gaps the spec didn't cover, challenged requirements with stakeholders, made architecture trade-offs, and launched a **Kafka** pipeline processing **50K+** daily events that replaced an entire manual operations workflow, saving the bank **300K+ EUR** compared to outsourcing
- Inherited two high-load microservices from external vendors and became the sole engineer responsible for their development, driving optimizations that cut infrastructure costs and reduced response times by **85%**, improving SLA performance for **2M+** customers
- Developed an internal pilot for **liveness detection** with **anti-spoofing** and **face matching** against government-issued IDs, validating a new approach to KYC compliance and fraud prevention at the onboarding stage
- Drove the hiring process from role definitions to final offers, and **built a 3-person team**. Introduced structured code reviews, trunk-based development with short-lived feature branches, pair programming sessions for knowledge sharing, and sprint retrospectives with tracked action items, which **doubled feature delivery** throughput within the first months
- Developed high-load, data-driven interfaces for internal analytical tools using **React**, **Redux**, **TypeScript**, and **REST API** integration, deeply leveraging the bank's proprietary UI component library with custom theming and complex form workflows library with custom theming and complex form workflows

Worked with: Spring Boot, Apache Kafka, Podman, GitLab, Kotlin, Java, React, Docker, JUnit, Scrum

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

Project: Mental Health Startup

- Designed and launched the backend architecture on **Spring WebFlux** and **Google Cloud Platform** from scratch, optimizing for minimal infrastructure costs from day one so the startup could scale without burning through runway
- Implemented **real-time streaming** data encryption that ensured **0** unauthorized reads and full **EU GDPR compliance**, a critical requirement for handling sensitive mental health patient data
- Led a team of three developers and automated **CI/CD** in **GitLab**, reducing deployment time from **12** minutes to **4** minutes without explicit downtime.

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

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**%.

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

Backend Developer, ArenaPizza — Oct 2023 - Mar 2024

Project: Order Management & Logistics Optimization

- Implemented a secure **REST API** on **Spring Boot** with **OAuth2** and **JWT**.
- Optimised the shift schedule, 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, Java

EDUCATION AND ADDITIONAL INFORMATION

Bachelor of Computer Science - Technical University of Kosice — Sep 2022 - June 2025

Personal achievements:

- Founded **Seedfast** to solve a universal developer bottleneck: ~12 hours/week wasted on test data across the $4.7B synthetic data market still dominated by 15-year-old tools. Built an **AI-native** CLI that reads **PostgreSQL** schemas and generates **realistic**, **relationship-aware data** in under **3 minutes** with **zero configuration**, and won **1st place** at DDAccelerator Finals as the only Slovak startup competing across 9 countries.
- Languages: English(C1 level, IELTS Acedemic band 8.0), Slovak(full professional proficiency), Russian(native), Belarussian(native)