Szabolcs Mentes

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Summary

Java Backend Engineer with a strong background in developing scalable, mission-critical applications across FinTech, Automotive, and Retail. I specialize in the Spring Ecosystem to build resilient Microservices and high-throughput data systems. Throughout my career, I have worked in high-pressure environments—from streaming real-time race analytics for global motorsports to developing secure banking and trading platforms. I am comfortable navigating the full software lifecycle, from initial system design to cloud deployment and performance optimization. I am an advocate for clean code and leverage AI-augmented tools (Gemini, Copilot, Junie AI) to ensure high-velocity delivery and architectural excellence.

Experience

Software Engineer, Globant – Cluj-Napoca, Romania   Aug 2021 – present

- Trading Platform: Engineered core backend services for real stock trading functionality and complex financial statement generation, ensuring high data integrity for regulatory reporting during peak market activity.
- Mobile Banking: Architected secure microservices to deliver real-time personal finance insights, integrating third-party APIs under strict financial security standards.
- Motorsports Analytics: Enhanced a high-performance data streaming application for live race analytics, ensuring 99.9% uptime for high-velocity sensor data.
- Online Grocery: Architected microservices for a checkout engine, handling complex mathematical logic for tax calculations and promotional discounts.
- Tech Stack: Java (17/21), Spring Boot, Go, Kotlin, GraphQL, REST, GCP, AWS, Kubernetes, Helm, Docker, PostgreSQL, MongoDB, Temporal, Kafka, ArgoCD, Datadog.

Java Developer, NTT DATA Romania – Cluj-Napoca, Romania   Dec 2017 – Aug 2021

- European Toll Settlement: Engineered a cloud-native backend to automate cross-border toll charges, contributing to a strategic monolithic-to-microservices migration.
- Emissions Engine: Developed core backend logic and complex modeling algorithms to calculate high-precision fuel consumption and pollutant emissions.
- Vehicle Service Middleware: Built robust data pipelines within a microservices architecture to synchronize high-traffic vehicle service requests.
- Tech Stack: Java, Spring Boot, Angular, Kubernetes, Docker, Openshift, ActiveMQ, Kafka, PostgreSQL, MongoDB, DB2, Elastic Stack, Jenkins, SOAP/REST.

Intern, msg systems Romania – Cluj-Napoca, Romania   Aug 2016 – Sept 2016

- Collaborated within an Agile team to develop core features for a scalable aviation-sector web application.
- Tech Stack: Java EE, JSF, Glassfish, Maven, HTML/CSS.

Projects

Autonomous Financial Intelligence Pipeline   2024 – present

- Developed an AI-driven financial intelligence platform that orchestrates real-time market monitoring, valuation modeling, and sentiment analysis.
- Integrated distributed Python-based scrapers with LLMs (Gemini, Groq) to synthesize complex market signals (earnings transcripts, insider trading).
- Leveraged a CI/CD-driven data pipeline to deliver high-frequency, actionable insights via automated Discord and email reporting channels.

Next-Generation Sequencing utilizing Big Data Analysis Methods   2019 – 2019

- Master's Thesis: Built an analysis pipeline using Bioconda to process and analyze large-scale genomic data sets.

Skills

Core Ecosystem: Modern Java & Spring Boot Ecosystem, Microservices & Distributed Systems, Go, Kotlin, GraphQL

Cloud-Native: AWS, GCP, Kubernetes, Docker, Helm, ArgoCD, GitHub CI/CD, Azure DevOps

Data & Streaming: Apache Kafka, Temporal, GCP Pub/Sub, PostgreSQL, MongoDB, Redis, Elastic Stack

AI & Tooling: AI-Augmented Development (Gemini, Claude, GitHub Copilot, Junie AI), Datadog, Sonarqube

Languages: English (Full Professional), Romanian (Full Professional), Hungarian (Native), German (Limited Working)

Education

Technical University of Cluj-Napoca, Master's Degree in Computer Science and Systems Engineering   2017 – 2019

Technical University of Cluj-Napoca, Bachelor's Degree in Automatics and Computer Science   2013 – 2017