Eric Muganga

Backend Software Engineer | Osiedle Czecha 41, Poznan, Wielkopolski

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PROFESSIONAL SUMMARY

Java Developer with 1+ years of hands-on experience building production financial technology systems. Specialized in Spring Boot microservices, payment processing APIs, and distributed systems architecture. Proven track record of 99.99% system reliability, 87% performance optimization, and zero-downtime deployments. Strong expertise in scalable backend services supporting thousands of concurrent users with PCI-compliant financial transaction processing. Graduating with distinction (4.84 CGPA) while delivering production-ready systems.

TECHNICAL SKILLS

Programming: Java 8+, JavaScript, TypeScript, SQL, Linux Scripting, C#
Databases: PostgreSQL, MySQL, SQL Server, MongoDB, DynamoDB
Backend Frameworks: Spring Boot, Spring Security, Spring Cloud, Spring WebFlux, Hibernate/JPA
Frontend Technologies: React, TypeScript, HTML5, CSS3, Angular (learning)
Messaging & Streaming: Apache Kafka, Event-Driven Architecture, Message Queues
DevOps & Cloud: Docker, Kubernetes, Oracle Cloud Infrastructure, AWS (S3, EC2, Lambda), CI/CD (GitHub Actions, GitLab)
Tools: Git, Maven, Gradle, IntelliJ IDEA, Swagger/OpenAPI, Postman
Methodologies: Agile/Scrum, TDD, Domain-Driven Design, Microservices Architecture, SOLID Principles

EXPERIENCE

Software Engineer Intern | Cashfro (Remote)   *Feb – Oct 2025*

- **Developed Java-based financial systems** using Spring Framework and Spring Boot for mobile financial application serving rotating savings groups (ROSCAs), architected to support 1,000+ concurrent users
- **Built RESTful web applications** processing thousands of daily financial transactions with secure payment gateway integrations, contributing to 15% improvement in data integrity
- Implemented PCI-compliant transaction handling using Spring Security with JWT authentication, ensuring regulatory compliance for financial operations processing $10K+ daily transaction volume
- **Collaborated in Agile/Scrum environment** participating in requirements analysis, sprint planning, code reviews, and CI/CD pipeline development
- **Applied Linux scripting and deployment** processes for automated testing and production deployment workflows

Software Engineer Intern | Oneramp (Remote)   *May – Sep 2024*

- Engineered scalable Spring Boot backend services for cryptocurrency ramping platform, increasing transaction throughput by 40% and supporting 10,000+ concurrent users during peak trading periods.
- Optimized data flow architectures and system logic for fiat-to-crypto conversions, reducing processing errors by 25% and enhancing system reliability through comprehensive error handling
- Built full-stack applications using React/TypeScript frontend integrated with Java Spring Boot APIs, accelerating deployment speed by 30% and improving system performance.

KEY PROJECTS

Muscledia - Gamified Fitness Platform | *Diploma Project*

- Architected 6-microservice distributed system with **Apache Kafka** event streaming, achieving 100% infrastructure uptime and **99.99%** service availability over **400+** hours of production operation
- **Optimized AI service performance by 87%** (312s -> 41s response time), through model optimization and caching, supporting 450 requests/second throughput with reactive programming
- Engineered cost-efficient deployment on Oracle Cloud Infrastructure ($0/month using Always Free Tier), managing 52 REST API endpoints across distributed services with comprehensive monitoring
- Implemented polyglot persistence (MySQL, MongoDB) with advanced indexing strategies, reducing query response times by 85-90%
  Tech Stack: Java 21, Spring Boot, Spring WebFlux, Apache Kafka, MySQL, MongoDB, Docker, Oracle Cloud Infrastructure

EDUCATION

B.S. in Computer Science | Uniwersytet WSB Merito Poznan | 4.84 CGPA   *February 2026* | Poznan, Poland
Relevant Coursework: Data Structures & Algorithms, Database Systems, Software Engineering, Distributed Systems, Computer Networks

CERTIFICATIONS & ACHIEVEMENTS

- IBM Generative AI: Prompt Engineering
- Spring Boot 3 & Spring 6 Professional Certification
- Hibernate/JPA Advanced Data Persistence
- IBM Cloud Native, Microservices, Containers & DevOps Professional Certificate
- Git Version Control Advanced Certification
- Dean's List: 4.84 CGPA

ADDITIONAL INFORMATION

Languages: English (C1 Professional) | Polish (A2 Intermediate)

Technical Interests: Distributed systems architecture, performance optimization, financial technology, cloud-native applications, event-driven design

Professional Development: Active contributor to open-source projects, technical mentoring, continuous learning in emerging technologies