Milutin Rankovic

SENIOR FULL STACK SOFTWARE ENGINEER

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SUMMARY

Senior Full Stack Engineer with **10+ years of experience** designing and developing **scalable, cloud-native web platforms** for global remote teams across Europe. Proficient in **Java**, **Kotlin**, **Spring Boot**, **GraphQL**, and **microservices architecture** for backend development, and experienced in **TypeScript**, **Node.js (NestJS, Express)**, **React**, **Next.js**, and **Tailwind CSS** for frontend applications. Skilled in **Docker**, **Kubernetes**, **PostgreSQL**, and **AWS** to build secure, maintainable, and high-performance distributed systems. Hands-on experience with **AI** and **LLM integration** using **Python**, **FastAPI**, **LangChain**, and **vector databases** for intelligent application features. Strong focus on **software scalability**, **performance optimization**, **DevOps automation**, and **team leadership**, combining backend reliability, frontend precision, and startup agility to deliver impactful results.

EXPERIENCE

Senior Full Stack Engineer
Zelh Tech

📅 09/2021 - 10/2025

I led the end-to-end development of scalable, cloud-native web platforms for global clients. I used **Kotlin (Spring Boot, GraphQL)**, **TypeScript/React**, and **AWS** to build high-performance systems, while integrating **AI/LLM automation** using **Python (FastAPI, LangChain)** and **vector databases (pgvector, Pinecone)**. Key projects include the **AI-Driven Data Platform** for semantic analytics, the **Workforce Management System** for team scheduling and task tracking, and the **Developer Operations Hub** for internal monitoring and deployment automation.

- Built backend microservices in **Kotlin (Spring Boot, GraphQL)** and deployed on **AWS**.
- Integrated **AI/LLM pipelines** using **Python (FastAPI, LangChain)** for intelligent data insights.
- Developed frontends with **React**, **Next.js**, and **Tailwind**, improving UI performance.
- Optimized **PostgreSQL** and **MongoDB** for scalability and real-time data access.
- Automated CI/CD using **Docker**, **Kubernetes**, and **GitHub Actions**, reducing release cycles.
- Collaborated with distributed teams on architecture, performance tuning, and mentorship.

Senior Software Engineer(Backend Focused)
Brocoders

📅 09/2018 - 09/2021

I led backend development across several web and mobile app projects for international clients, including the **Fitness Tracking App**, **E-learning Platform**, and **Marketplace Application**. I focused on building scalable APIs, secure data layers, and cloud-native services using **Node.js (NestJS, Express)**, **Java (Spring Boot)**, **Ruby on Rails**, and **PostgreSQL**—ensuring high performance and reliable integration with mobile and frontend teams.

- Designed and maintained **REST** and **GraphQL** APIs supporting web and mobile clients with low-latency data access.
- Architected backend modules for authentication, payments, and notifications, integrating third-party APIs such as **Stripe**, **Firebase**, and **Twilio**.
- Built **microservices** with **Node.js**, **Ruby on Rails**, and **Java**, ensuring modularity and scalability across distributed systems.
- Collaborated with mobile teams (**React Native**, **Flutter**) to define efficient API schemas and implement real-time features using **WebSockets**.
- Modeled and optimized **PostgreSQL** and **MongoDB** databases, improving query performance and scalability.
- Managed deployments with **Docker** and automated CI/CD workflows using **GitHub Actions**, reducing release time by 35%.
- Mentored junior developers, contributed to **code reviews**, and ensured consistent technical quality across projects.

Full Stack Developer (Frontend Focused)
Techverx

📅 07/2015 - 07/2018

I used **Vue**, **React**, **JavaScript/TypeScript**, and **HTML/CSS** to build and improve several enterprise-grade web platforms, including the **Enterprise CRM System**, **Financial Dashboard**, and **Client Portal Application**. I focused primarily on frontend development and UX consistency while collaborating closely with backend teams using **Java (Spring Boot)**, **C#/.NET**, and **PHP (Laravel)**.

- Developed modern, responsive interfaces with **Vue** and **React**, improving load speed and accessibility.
- Integrated frontend applications with REST APIs built in **Spring Boot**, **.NET**, and **Laravel**.
- Implemented component-based architecture and reusable UI libraries to reduce maintenance overhead.
- Worked with designers to refine layouts and ensure cross-browser compatibility.
- Improved data visualization and reporting using charting libraries integrated into financial dashboards.
- Deployed front-end applications using **Docker** and **Jenkins** pipelines, streamlining releases.
- Participated in Agile sprints, code reviews, and daily stand-ups to ensure on-time delivery across projects.

Junior Backend Developer
Finoit

📅 10/2013 - 07/2015

I began my professional journey as a backend developer, gaining hands-on experience with **Python (Django, Flask)**, **C++**, and **.NET/C#** while contributing to internal and client-facing web applications. I focused on building maintainable backend systems, designing clean APIs, and learning the fundamentals of database design, debugging, and performance optimization under senior developer mentorship. This period strengthened my understanding of backend architecture and cross-language problem-solving.

- Developed RESTful APIs and backend modules using **Python (Django, Flask)** and **.NET/C#**.
- Implemented data models and queries in **MySQL** to ensure consistency and performance.
- Built and optimized core logic components in **C++** for backend processing.
- Assisted in integrating APIs with frontend and mobile clients.
- Created and maintained unit tests to support stable feature releases.
- Participated in Agile sprints and learned modern software development workflows.
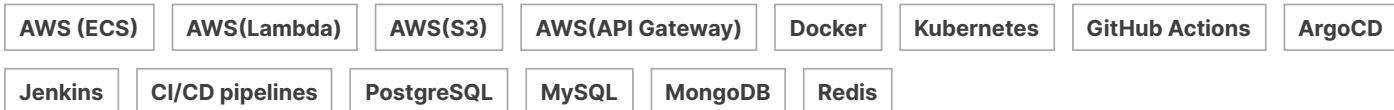
SKILLS

Backend Skills

Kotlin | Spring Boot | GraphQL | REST | Java | Node.js | NestJS | Express | Python | FastAPI | Django | Flask | C#/.NET | PHP (Laravel) | C++ | Ruby on Rails

Frontend Skills

React | Next.js | Vue | TypeScript | JavaScript | Redux | Tailwind CSS | HTML5 | CSS3

Cloud & DevOps & Database

AWS (ECS) | AWS(Lambda) | AWS(S3) | AWS(API Gateway) | Docker | Kubernetes | GitHub Actions | ArgoCD | Jenkins | CI/CD pipelines | PostgreSQL | MySQL | MongoDB | Redis

AI & Data

LangChain | Vector Databases | OpenAI API | Data Modeling | Analytics | Integrations

Architecture & Integration

Microservices | GraphQL APIs | Authentication | OAuth2 | JWT | API Gateway | Event-Driven Systems(Kafka)

Development Practices

Agile/Scrum | Version Control (Git) | Version Control(GitHub) | Code Reviews | Documentation | Mentorship

LANGUAGES

Serbian   Native   **English**   Fluent

EDUCATION

Bachelor's Degree in Computer Science

University of Novi Sad, Faculty of Electrical Engineering

📅 10/2009 - 06/2013

CERTIFICATION

Oracle Certified Professional Certification - Java SE 8 Programmer
Oracle, 2024

AWS Certified AI Practitioner
Amazon Web Services, 2025

Java Oracle Certified Associate Certification
Oracle, 2025

PROJECTS

AI-Driven Data Platform

📅 2025

Developed an AI-powered semantic analytics platform that processed large environmental and operational datasets using LLMs. Built scalable microservices in Kotlin and deployed them on AWS. Integrated Python-based AI pipelines and vector databases for real-time data insights.

Developer Operations Hub

📅 2025

Created an internal monitoring and deployment hub automating developer workflows, environment provisioning, and release tracking. Improved infrastructure reliability and reduced manual deployment effort by 40%.

Workforce Management System

📅 2024

Built a cloud-native scheduling and task-tracking platform used by distributed teams worldwide. Focused on performance optimization, real-time data access, and CI/CD automation, reducing release cycles and increasing scalability.

E-Learning Platform

📅 2021

Led backend development for an interactive online education system supporting video courses, quizzes, and live sessions. Implemented scalable APIs and WebSocket-based real-time features for thousands of concurrent users.