

Gurkan UCAR

Software Engineer

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github | linkedin | stackoverflow | medium



Software Engineer specializing in Java Spring Boot and Cloud-Native architectures. Proven ability to migrate monolithic systems to microservices and optimize high-traffic backends. Seeking a challenging role to leverage expertise in Backend Development, DevOps, and System Optimization.

EXPERIENCE

Turkish Airlines Technology

Java Software Engineer 08/2024 – Present

- Developed critical applications for cabin and cockpit crews, including a document assignment app and flight destination info system.
- Optimized performance of legacy backend projects to improve response times by approximately 20%.
- Fixed critical security vulnerabilities using Fortify and TruffleHog to ensure secure deployment pipelines.
- Tech Stack: Java Spring Boot, OpenShift, S3 Object Storage, Kafka.
- Outsource

Yapi Kredi Bank

Java Software Engineer 05/2023 – 08/2024

- Executed a Monolith to Microservice conversion project using Java Spring Boot and ReactJS.
- Developed a utility Mock API tool (REST / SOAP) and a custom IntelliJ plugin to accelerate development workflows.
- Achieved 90% Unit and Integration Testing coverage using JUnit, WireMock, and RestAssured.
- Utilized SAP PowerDesigner, Jira, Confluence, and Bitbucket for lifecycle management.
- Outsource

Huawei

Software Engineering Intern 12/2022 – 03/2023

- Developed microservice projects utilizing Spring Boot, MongoDB, PostgreSQL, Kafka, and Rancher.

IKnow Technology

Software Engineering Intern 06/2022 – 07/2022

- Developed a microservice diary project using Spring Cloud Gateway, Feign Client, and Eureka Server.

Bulut MD Software

Software Engineering Intern 06/2020 – 03/2021

- Gained full-stack experience in frontend and backend development using Spring Boot and ReactJS.

SOCIETIES

FOLKSDEV

09/2021 – 12/2023

Contributed by preparing tutorials, publishing articles on Medium, and participating in team-led developer events.

SKILLS

Languages: Java, JavaScript, Go

Frameworks: Spring Boot, ReactJS, Hibernate

Databases: PostgreSQL, MongoDB, Redis

Message Brokers: Kafka, RabbitMQ

Cloud & DevOps: Linux, Docker, OpenShift, AWS

Storage & Network: S3 Object Storage, Nginx, Traefik

Testing: JUnit, WireMock, Postman/Newman

Protocols: REST, WebSockets, MQTT, WebRTC

Tools: Git, Jira, Fortify, SonarQube, Grafana, Copilot, Arduino

PROJECTS

- AI-Based Assembly Error Detection** — Deep learning system for detecting assembly errors using mobile devices at Samsung R&D. (*Python, YOLOv11, OpenCV, Go, ReactJS*)
- Trakya Campus 4.0** — BLE-based attendance tracking and QR-based library access system. (*Java Spring Boot, BLE, Mobile*)
- REST/SOAP API Mocking Tool** — Utility to mock API responses to unblock frontend teams. (*Java, Spring Boot*)
- WebRTC P2P Video Call** — Low-latency video calling implementation. (*Spring Boot, ReactJS, WebRTC*)
- MQTT Location Tracking** — Real-time location tracking system processing data streams. (*Android, RabbitMQ, MQTT*)
- RealTime Chat App** — Scalable chat application using WebSockets. (*Node.js, Socket.IO, React*)
- Self-Hosted Infrastructure Service** — Reusable backend platform providing authentication, key-value storage, and feature flags. (*Go, Docker, Redis*)

EDUCATION

TRAKYA UNIVERSITY

MSc in Computer Science

2023 – Present

Thesis: AI Detection of Assembly Errors (Samsung R&D).

BSc in Computer Engineering

2019 – 2023

GPA: 3.56 / 4.0 (Ranked 2nd in Class)

LANGUAGES

Turkish (Native) • English (Professional)

INTERESTS

Self-Hosting (HomeLab), Aviation, Electronics