

Havva Burcin Ozkan

Junior Software Engineer

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🌐 LinkedIn



Profile

Results-driven Java & Spring Boot Developer specializing in RESTful API development, microservice architecture, and cloud-based deployments. Adept at delivering robust and maintainable solutions through modern development practices and cross-functional collaboration. **Motivated to apply core Java skills to contribute to innovative software projects in the dynamic airline and travel IT sector.**

Education

Bachelor's Degree / Computer Engineering

Muğla Sıtkı Koçman University

2020 – 2025

Mugla, Turkey

Skills

Java, Spring Boot

Object Oriented Programming (OOP)

Hibernate, JPA

Data Structures & Algorithms

HTML5/CSS3, jQuery

TypeScript, React Native

PostgreSQL

Flyway Migrations, Redis (Caching)

Docker, Git

REST APIs

JWT Authentication

Experience

Software Development Intern

VBT Software

June/2024 –

October/2024

Ankara, Turkey

- Developed features within a Spring Boot-based microservices architecture, focusing on modularity and scalability.
- Implemented and **thoroughly tested** RESTful services, improving API response efficiency and reliability, **collaborating with senior developers** on design and requirements.
- Gained hands-on experience with enterprise-level code structures, unit testing (JUnit), and Git-based workflows.

Android Development Intern

Ziraat Technology

July/2023 –

September/2023

Ankara, Turkey

- Integrated and optimized RESTful APIs in mobile banking applications.
- Enhanced communication between Java backend services and Android clients, reducing latency and improving user experience.
- Collaborated with cross-functional teams to deliver secure, customer-facing features.

Projects

Subs Tracker - Subscription Management System [🔗](#)

Tech Stack: Spring Boot, PostgreSQL, Docker, Redis, Flyway, JWT, Spring Security, JPA/Hibernate.

- Developed a Spring Boot REST API for managing user- specific subscriptions with secure JWT authentication.
- Designed and optimized PostgreSQL schemas, managed with Flyway migrations for consistent database versioning.
- Deployed with Docker Compose, orchestrating services for the backend, PostgreSQL, and pgAdmin.
- Integrated Redis for caching and performance optimization of frequently accessed subscription data.
- Implemented authentication and authorization with Spring Security and encrypted user passwords using Password Encoder.

AeroSeat Reserve (Airline Seat Reservation System Backend) [🔗](#)

Tech Stack: Java 17, Spring Boot, Spring MVC, JPA/Hibernate, PostgreSQL, Redis Cache, Redisson

Distributed Locking, ACID Transactions, REST, Maven

- Implemented **pessimistic locking** and **Redis-based distributed locking** to prevent race conditions and guarantee **ACID-compliant** seat reservations even during high-traffic booking periods.
- Built RESTful services using **Spring MVC, Spring Boot, JPA/Hibernate** and structured the project with clean controller–service–repository architecture.
- Designed PostgreSQL schemas for flight, seat, and reservation management, ensuring reliable, scalable state tracking and optimized DB queries.
- Integrated **Redis caching** for real-time seat and flight availability, reducing DB load and improving system responsiveness.
- Developed DTO/Mapper layers for clean API responses and implemented exception handling for enterprise-level robustness.

AgriMatch - Cloud-Based Mobile Marketplace for Farmers [🔗](#)

Tech Stack: React Native, AWS (Cognito, DynamoDB, S3, AppSync, Amplify), GraphQL

- Built a React Native mobile app enabling farmers to sell products directly to buyers, reducing intermediary costs.
- Designed and implemented a serverless backend using AWS Amplify, AppSync, and DynamoDB for scalable data management.
- Integrated AWS Cognito for authentication, S3 for media storage, and AppSync (GraphQL) for real-time data synchronization.

Communities/Volunteer Work

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|---|------------------------------|
| • Worked on projects in data analysis, ML, and visualization. | 2022 – 2025
Muğla, Turkey |
| • Contributed to earthquake impact prediction and social data visualization projects. | |
| • Gained hands-on knowledge of OWASP Top 10 vulnerabilities. | 2022 – 2024
Muğla, Turkey |
| • Helped raise awareness of web application security among students. | |
| • Organized workshops on Python pipelines, preprocessing, and ML model building. | 2020 – 2023
Muğla, Turkey |
| • Collaborated on exploratory data-driven projects. | |