

ALİ YILMAZ

COMPUTER ENGINEER

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SUMMARY

Computer Engineer specializing in scalable backend systems and event-driven microservice architectures. Adept at orchestrating high-performance, real-time data flows using Java Spring Boot, Apache Kafka, Redis, and PostgreSQL. Experienced in deploying containerized solutions via Docker and implementing complex patterns like transactional outbox. Passionate about building secure, resilient APIs and driving efficient asynchronous communication across distributed environments.

TECHNICAL SKILLS

Languages

Java, Python, SQL, JavaScript, TypeScript,

Frameworks & Libraries

Spring Boot, Spring Cloud, FastAPI, React.

Backend & Cloud

Microservices, RESTful API Design, Cloud-Native Applications, JWT & OAuth2 Authentication, Spring Security, Swagger / OpenAPI

Databases & Tools

PostgreSQL, MySQL, Redis, Kafka, Docker, Kubernetes, Git, Postman, Nginx

WORK EXPERIENCE

Backend & DevOps Engineer (Freelance), C'esta Technology

03/2026 – 09/2026

Architected an enterprise LegalTech SaaS backend (Java 21, Spring Boot), implementing multi-tenancy (PostgreSQL RLS), layered auth (JWT, UYAP, RBAC), and a SHA-256 audit hash-chain. Engineered a transactional Outbox-to-Kafka pipeline with Redis, integrating izzico and Paraşüt for billing. Managed server infrastructure and CI/CD pipelines using Kubernetes and Coolify, deploying AI microservices (Qdrant, Gemini) for semantic case-law search and streaming RAG with S3 storage.

Software Engineering Intern, Ada Yazılım

07/2025 – 09/2025

Architected a modular Java Spring Boot insurance platform and engineered a JWT-based authentication system across 4 distributed microservices, reducing validation latency by 20ms. Optimized API reliability through a multi-layered architecture (DTO/Mapper), improving response times by 30% for 1,000+ concurrent requests, and developed RESTful APIs ensuring seamless real-time data flow with React/TypeScript frontends.

Software Engineering Intern, Uestco Enerji Sistemleri

08/2024 – 09/2024

Optimized real-time data processing on FreeRTOS and developed high-reliability communication protocols (UART/I2C/SPI) to ensure 100% data integrity between hardware and software layers. Engineered a scalable SQL-based data management system and a Node-RED dashboard, improving hardware peripheral efficiency (ADC/DMA/PWM) and enabling efficient real-time monitoring

PROJECTS

Taskify - Task Management System, Java, Spring Boot, Redis, Kafka, PostgreSQL, Docker, React

Developed a distributed task management application comprising 5 decoupled microservices using Java, Spring Boot, and Docker. Integrated Redis and Kafka to enable real-time state synchronization across active users with less than 20ms latency, alongside secure role-based access control.

TradeHub - Barter & Trading Platform, Java, Spring Boot, Microservices, PostgreSQL, Kafka, Redis, Docker, Google OAuth2. Architected a secure, event-driven microservices platform (Spring Boot, Kafka, Docker) featuring an anti-fraud "Two-Way Handshake" trade engine, reducing potential fraudulent transactions by 99%. Implemented the Outbox pattern ensuring 100% zero-message-loss in async operations, and currently finalizing the CI/ CD pipeline for live deployment.

ChefsStack Recipe Platform, *Python, FastAPI, PostgreSQL (pgvector), Redis, Kafka, Docker, Machine Learning*
Built a highly scalable recommendation engine (Python, FastAPI) leveraging pgvector and ML embeddings for sub-50ms query responses. Integrated Kafka and Redis to process 1,000+ sequential user interaction events, generating personalized feeds and trending lists in real-time.

Insurceed - Insurance Management Platform, *Spring Boot, PostgreSQL, React*. Engineered a modular backend system (Spring Boot, PostgreSQL) for end-to-end insurance workflows, streamlining policy, offer, and claim processes. Optimized complex relational database queries, improving data retrieval speeds by 25% for high-volume policy generation.

TravelMate Travel Planner, *Java, Spring Boot, React, PostgreSQL*. A web-based planning application that enables users to create and share itineraries, including routes, accommodations, and activities..

Traffic Accident Severity Prediction System, *Python, Flask, Scikit-Learn, Pandas, React, OpenRouteService, OpenStreetMap*. Created a predictive routing system (Python, Flask, React) processing over 100,000+ historical accident records via Scikit-Learn. Achieved 85%+ accuracy in real-time risk assessment by seamlessly integrating OpenRouteService and weather APIs for dynamic route-based alerts.

CestaLaw - AI-Powered Legal Tech Platform, *Java 21, Spring Boot, React, Kafka, Redis, Docker, CI/CD*
Architected a highly scalable, event-driven full-stack infrastructure for an AI legal-tech SaaS. Orchestrated inter-service communication using Kafka and optimized data retrieval with Redis caching, while seamlessly integrating a collaborative AI microservice. Streamlined enterprise deployment cycles by implementing end-to-end containerization (Docker) and fully automated multi-repo CI/CD pipelines.

CestaLex - Multi-Tenant Legal-Tech SaaS, *Java 21, Spring Boot, PostgreSQL, Kafka, Redis, Qdrant, Docker*. Architected the core backend of an enterprise legal SaaS featuring defense-in-depth multi-tenancy, layered authentication (JWT, OAuth, UYAP, RBAC), and a transactional Outbox → Kafka event pipeline. Built robust financial workflows by integrating Iyzico for subscription payments and Paraşüt for automated e-invoicing. Designed an advanced AI ecosystem utilizing Qdrant and Gemini for semantic case-law search and streaming RAG, supported by versioned S3 storage, document exports (PDF/Word/UDF), and a tamper-evident SHA-256 audit hash-chain.

CERTIFICATES

- Advanced Java - BTK Akademi
- Master Microservices with Spring Boot, Docker & Kubernetes - Udemy
- Samsung Innovation Campus - Samsung
- Git & GitHub Mastery - Coursera
- Huawei Cloud AI Bootcamp - Huawei Türkiye
- Python Programming Language - Turkcell
- SQL with Practical Applications - BTK Akademi
- Vision Camp - GSB
- HCCDA-Tech Essentials - Huawei
- Spring Boot 3 & Spring Boot 6 Training - Udemy

LANGUAGES

English
B2 Level

EDUCATION

B.S. in Computer Engineering, Fatih Sultan Mehmet University
June 2026

SOCIAL AND TECHNICAL ACTIVITIES

- Regularly publishes articles on medium
- Actively participates in hackathons workshops.
- Served as a team leader in TÜBİTAK and TEKNOFEST technology competitions.
- Served as a technology instructor and mentor for students at T3 Deneyap Workshops.