

# Osman Burak Intisah

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## Experience

**Cherry Technologies** , San Francisco, US & Istanbul, Turkey: *Backend Engineer*

Jul 2023 – present

- Built backend services for a US healthcare **BNPL** platform using **Spring Boot + Kotlin**.
- Built notification workflows handling **150K SMS/day** and **20K emails/day** via **Twilio** and **Sendgrid**.
- Refactored a legacy Python-based search sync system into a high-throughput architecture using **Maxwell (CDC)**, **RabbitMQ**, and **Elasticsearch**; improved latency from **30s** to **500ms**, with **20K events/min** throughput.
- Upgraded legacy **n8n** from v0.198 to v1.80 with **0 downtime**; moved **7TB** of historical data to a separate legacy instance for read-only access, resolving **90% of security issues**.
- Led architecture and stakeholder alignment for both migrations.
- Built **MFA** and device auth system adopted by **10K+ users**, cutting high-risk login traffic by **50%**.
- Maintained system health and quality through **NewRelic**, **SonarQube**, and **GitLab CI/CD**.

**Trendyol Group** , Istanbul, Turkey: *Backend Engineer*

Jun 2021 – Jul 2023

- Maintained seller platform services with **3K RPM**, **99.99% uptime**, and **0.001 error rate**.
- Reduced search latency by **30%** by integrating **Elasticsearch** into the product note system.
- Built microservices in an event-driven architecture using **Spring Boot (Java/Kotlin)** and **Go**, with **Kafka** and **PostgreSQL**.
- Streamlined deployment with **GitLab CI/CD**, **Docker**, and **Kubernetes**.
- Increased test coverage from **50% to 90%** using **JUnit** and **Mockito**; implemented integration and contract tests.
- Contributed frontend features in a **React**-based micro-frontend architecture.

**IOTIQ**, Leipzig, Germany: *Software Engineering Intern*

Jul 2020

- Built a **native Android app in Java** to optimize pallet truck routing in factories, reducing latency by **30%**.
- Developed a lightweight **MQTT broker** in **JavaScript** and containerized it using **Docker**.


## Education

**Bilkent University**  – **B.Sc. in Computer Engineering**


Sep 2016 – Jun 2021

CGPA: **3.48 / 4.00** – *Comprehensive Merit Scholarship Recipient. Ranked **1048<sup>th</sup>** out of **2 million** in national entrance exam*

## Projects

**URL Shortener**  – Secure and scalable AWS serverless backend

- Implemented link shortening backend using **AWS Lambda**, **API Gateway**, **DynamoDB**, and **Cognito**.
- Enabled authentication, access logging, and monitoring with **CloudWatch**.

**FlowerGarden**  – Online flower shop with custom checkout flow

- Built the frontend in **React**, integrated SQL-based backend for order and inventory.
- Designed end-to-end shopping flow: browse, cart, purchase, confirmation.

**Prelude** – Defect detection on fabric using ML

- Built a computer vision prototype with **YOLOv4** to detect defects in fabric images.
- Created a desktop interface in **Python (Kivy)** for image input and report generation.

**Fast Denouncement**  – Anonymous reporting app

- Developed Android app in **Java** with **Google Maps API** for anonymous GPS-based reporting.
- Won **1st place** out of 20 teams in Bilkent University hackathon. Backend in **Node.js**.

**Dark Room**  – Puzzle escape game with sensory inputs

- Created an immersive Android game in **Java** using audio and vibration-based clues.
- Won **1st place** among 24 teams at national game marathon by BTK.

## Certificates

**AWS Certified Solutions Architect Associate** 

Amazon Web Services (AWS)

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