



# Umut Sevdi

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## Education

**Yildiz Technical University, Computer Engineering** 2019/09 – 2024/01  
GPA - 3.14

## Technical Skills

### Programming Languages

Java, C++, C, Go, Bash, JavaScript

### Frameworks and Libraries

Spring Boot, PicoSDK, Echo, Drogon, GLib, ROS

### Tools and Technologies:

Docker, Git, RabbitMQ, Oracle PLSQL, PostgreSQL

### Platforms

Linux, Raspberry Pi Pico

## Other Skills and Concepts

- Object Oriented Programming
- Algorithms and Data Structures
- Unit Testing
- Back-end Development
- Version Control (Git)
- SDLC Tools (i.e, Bitbucket, Jira)
- Agile Software Development

## Professional Experience

**Yapı Kredi Teknoloji, Software Engineer** 2022/03 – present

### FAST and EFT Money Transfers Team

- Improved the performance of a critical batch process with concurrency and resolved failure cases due to duplicate registries.
- Added features enabling customers to receive full refunds for specific cases of FAST and EFT money transfers, utilized approximately 2,000 times per month.
- Implemented the Secure Payment Protocol to facilitate the quick and secure transfer of large sums (over 2,000,000₺ per transfer).
- Played a significant role in the rewrite of the Retail Payment System using modern development practices.
- Maintained critical microservices and continuously added new features.
- Migrated legacy repositories to Java 17 while enhancing code quality.

### CashFlow Team

- Rebuilt data reporting queues and consumers with multi-threaded and scalable architecture, reducing the possibility of race conditions up to 90%.
- Developed microservices for payment process control and monitoring.
- Designed and implemented the backend for online payment service integration for enterprise use.
- Developed a reporting service to alert senders of missing or incorrect data by detecting online and sync events.

**egaranti, Back-end Developer - Part Time** 2021/07 – 2022/01

- Architected, built and deployed the backend services for small businesses and individuals from the ground up.

## Certifications

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### Google DSC Lead Certificate [↗](#)

Credential ID: GDSC2022-1pn26ybw4b9x0r7eohn8

### Java Backend Developer Certificate [↗](#)

Jetbrains Academy

### Spring Security for Java Backend Developers [↗](#)

Jetbrains Academy

### SQL Fundamentals Certificate [↗](#)

Jetbrains Academy

### Go Intermediate Certificate [↗](#)

Hackerrank

## Languages

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### Turkish

Native Language

### English

IELTS Academic CEFR Level C1

## Projects

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### WearPico [↗](#)

- An open-source Smartwatch firmware written in C for the Raspberry Pi Pico with an Android Application.
- The watch includes advanced features such as health monitoring, receiving notifications, handling calls, and controlling the media player on the phone.

### Brauzer [↗](#)

- A curl-like web browser from scratch in C programming language for Linux that implements web protocols such as HTTP, HTTPS, Gopher and Gemini.

### Eye Tracking Robot [↗](#)

- A two-wheeled device that tracks eye movements and moves accordingly utilizing threads to move while listening to commands, written in C and Python using OpenCV.

### Service Discovery and Load Balancing Service [↗](#)

- A service registry and load balancing system that relies on UDP broadcasting to discover available microservices instead of storing in a database.

### Logic Circuit Simulator [↗](#)

- A free and open-source Logic Circuit Simulator that simulates circuit boards, including all basic logic gates, clocks and basic input-output features such as reusable templates, save and load.

## Organizations

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### Google Developer Students Club, Lead [↗](#)

2021/07 – 2022/06

- Led the Google Developer Students Club of Yildiz Technical University, organizing and managing events to promote Google Technologies.

### SKY LAB, Research and Development Manager [↗](#)

2020/07 – 2022/06

- Managed the research and development of the largest computer science club at Yildiz Technical University.
- Supervised seven research and development teams of the club and projects.
- Throughout the management term, delivered six courses.