

# Umut Sevdî Software Engineer

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## Education

**Yıldız Technical University, Computer Engineering**   
GPA - 3.14

Sep 2019 – Jan 2024

## Technical Skills

### Java

Three years of professional and four years of overall experience. Worked in large-scale applications. Proficient in frameworks such as Spring Boot and Vaadin.

### Linux

Four years of experience on desktop and server platforms, including deployment and management to cloud providers. Maintaining a home server for over a year.

### Docker

Experience with the deployment and management of containers.

### Bash

Developed automation programs for desktop and server environments.

### C

Four years of experience focused on CLI tools and embedded systems. Knowledgeable in POSIX libraries and build-systems, familiar with third-party libraries such as PicoSDK, GLib and OpenSSL.

### Go

Two years of experience in building web services and CLI tools for the personal use. Familiar with the standard library and third-party libraries such as Echo.


### C++

Familiar with core C++ concepts and libraries. Developed embedded applications and have basic knowledge of ROS.

## Core Competencies

- Object Oriented Programming
- Unit Testing
- Git
- Back-end Development
- Agile Software Development
- SQL Databases
- Message Brokers (RabbitMQ)
- Socket Programming
- Algorithms and Data Structures

## Professional Experience

**Yapı Kredi Teknoloji, Software Engineer** 

Mar 2022 – present

### FAST and EFT Money Transfers Team (6 Months)

- Maintained the critical micro-services and upgraded the source code to modern practices.
- Created detailed up-to-date documentation of all services.
- Improved the performance of batch services with concurrency.
- Developed and deployed various customer-facing services for the payment systems.

### CashFlow Team (1 Year 6 Months)

- Developed microservices for payment process control and monitoring.
- Restructured the data reporting transaction-summary queues to mitigate race conditions.
- Enhanced the performance of multiple services within the High-Frequency project at FAST.
- Designed and implemented the backend of online payment service integration for enterprise use.
- Developed microservice modules that capture and report failed, missing or loading to the responsible teams, capable of detecting online and sync errors.

**egaranti, Back-end Developer - Part Time** 

Jul 2021 – Jan 2022

- Built the backend service for small businesses and individuals from the ground up.
- Designed the external integration API.

## Certifications

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

Jetbrains Academy

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

Jetbrains Academy

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

2021 - 2022 Google Developer Students Club Lead,  
Certificate of Completion, Credential ID: GDSC2022-  
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### SQL Fundamentals Certificate [↗](#)

Jetbrains Academy

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

Hackerrank

## Projects

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### WearPico [↗](#)

- An open-source Smartwatch firmware written in C for the Raspberry Pi Pico with an Android Application.
- The smartwatch is built on Raspberry Pi Pico without relying on an operating system.
- In addition to essential clock functions such as time, alarm, and stopwatch, the WearPico includes health monitoring, receiving notifications, handling calls, and controlling the media player on the phone.

### Brauzer [↗](#)

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

### Eye Tracking Robot [↗](#)

- A two-wheeled device that tracks eye movements and moves accordingly, written in C and Python using OpenCV.
- Runs on multiple threads to move continuously while listening to connections. Uses UDP for IPC.

### 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 them in a database.

### Logic Circuit Simulator [↗](#)

- A free, open-source, cross-platform Logic Circuit Simulator that can calculate the results of circuit boards that includes all basic logic gates, clocks and basic input-output and allows users to save and load circuits and create reusable templates.

## Organizations

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

Jul 2021 – Jun 2022

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

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

Jun 2021 – Jun 2022

- SKYLAB is the largest computer science club at Yildiz Technical University, with over 1000 members.
- Managed seven research and development teams of the club and their projects.

Roles Held:

- Head of the Game Development Team (2020-2021)
- Research and Development Manager (2021-2022)

Teaching Experience:

- Introduction to Git Version Control System
- Introduction to Object-Oriented Programming with Java (Conducted in 2021 and 2022)
- Introduction to Go Programming Language

## Languages

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### Turkish

Native/ full working proficiency

### English

Native/ full working proficiency, 96/100 Proficiency  
Exam, 87/100 Erasmus Exam