

# Eyüp Zafer Ünal

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## Education

Hacettepe University, Computer Engineering

## Experience

### Software Engineering Intern, Binary Brain Technology Inc.

01/2025 - 02/2025

- Led the development of AvukatLLM, an AI-powered legal assistant using Microsoft's Phi-4 model, achieving 85% response accuracy in Turkish tax law consultations
- Implemented model quantization techniques reducing memory requirements by 75% while maintaining performance
- Architected and enhanced cross-platform mobile and web applications using Flutter with Firebase backend
- Created efficient model training pipeline using PyTorch and Transformers for continuous model improvements

### Software Engineering Intern, TellUS

06/2024 - 08/2024

- Implemented OBD2 and CANbus protocols for real-time vehicle data communication
- Engineered Arduino-based system architecture with PID control algorithms
- Created comprehensive testing procedures achieving 95% system reliability
- Technologies: Arduino, C++, CANbus, OBD2

## Certifications

### Microsoft Learn: Develop an ASP.NET Core web app that consumes an API

- Skills in developing ASP.NET Core web applications and consuming APIs
- Implementation of HTTP clients and API integration

## Projects

### GoDash - System Monitoring Tool

- Built real-time system monitoring dashboard using Go, Gin framework, and WebSocket connections
- Implemented CPU, memory, and disk usage tracking with automated alert system via email/webhook
- Designed REST API with PostgreSQL storage using GORM for historical data analysis
- Created responsive web interface and Docker containerization for cross-platform deployment

### Journey Of Crops

- Implemented resource optimization using dynamic programming (Knapsack algorithm)
- Enhanced interactive rail system simulation using Three.js and WebGL2
- Created animated visualization of algorithmic solutions
- Built a score calculation system based on optimization results

### LinkedHU

- Built backend functionality with comprehensive testing procedures using agile methodology
- Implemented user authentication and profile management systems
- Created RESTful APIs for university networking features
- Ensured code quality and performance optimization with CI/CD integration

## Skills

Languages & Frameworks - Python - Java - C++ - JavaScript - Go - Flutter - React - Node.js - C# - PyTorch - Transformers - LLMs - Gin - Gorilla Mux - GORM - Git - Docker - Firebase - MySQL - PostgreSQL - MongoDB - Redis - gRPC

## Relevant Courses

Software Architecture - Embedded Systems - Database Management Systems - Computer Graphics - Game Technologies