Eyüp Zafer Ünal

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Education

Hacettepe University, Computer Engineering

Eskişehir Fatih Fen Lisesi

Emine-Emir Şahbaz BİLSEM

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

Microsoft Learn: Build distributed apps with .NET Aspire
- Utilizing .NET Aspire stack for distributed applications
- Microservice architecture and cloud-native application development

Projects

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 - Flutter - React - Node.js - C# - PyTorch - Transformers - LLMs - Git - Docker - Firebase - MySQL - PostgreSQL - MongoDB

Relevant Courses

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