

Ali Gürcan

Computer Engineer

Istanbul, Turkey

m.aligurcan@outlook.com | linkedin.com/in/ali-gurcan | github.com/ali-gurcan | aligurcan.dev

+90 505 100 6204

SUMMARY

4th-year Computer Engineering student experienced in **Embedded Systems, Artificial Intelligence, and Full Stack Engineering**. Technical background includes developing **Large Language Model (LLM)** applications, **cross-platform mobile apps**, and **embedded software** projects. Capable of working across the full technology stack, from low-level hardware interactions to high-level application logic.

EDUCATION

Gebze Technical University

Bachelor of Science in Computer Engineering

Kocaeli, Turkey

2022 – Present

Middle East Technical University

Bachelor of Science in Civil Engineering (Transferred)

Ankara, Turkey

2020 – 2022

EXPERIENCE

Scale AI

Coder Expert (AI Training & Evaluation)

Remote / San Francisco, US

Nov 2024 – Present

- Contributing to the training and evaluation workflows of advanced AI models (LLMs).
- Enhancing the quality of AI-generated code through rigorous review and correction.
- Supporting AI integration across various business systems to optimize performance.

Galtek

Full Stack Developer Intern

Istanbul, Turkey

Jun 2024 – Aug 2024

- Developed a full-stack ERP module tailored for an electrical construction company.
- Designed and implemented a RESTful API architecture using Node.js.
- Built responsive frontend interfaces using React.js to streamline resource allocation and financial tracking.

PROJECTS

Mobile Oscilloscope (Senior Design Project) | STM32, C++, React Native

- Designed and implemented a portable oscilloscope using STM32 microcontroller for real-time signal acquisition.
- Developed a mobile application to visualize waveforms and control trigger settings via Wi-Fi.
- Optimized high-speed ADC and DMA usage to achieve accurate signal sampling and minimized latency.

AI Crypto Analysis (Market Watcher) (Live Demo) | React, AI, WebSockets

- Built a real-time cryptocurrency tracking platform featuring live price monitoring.
- Integrated AI-powered trading signals and interactive charts for market analysis.
- Implemented social community features and ensured a fully mobile-responsive design.

Chatbot for University Guidelines | Python, NLP, RAG, Vector DB

- Developed a Retrieval-Augmented Generation (RAG) pipeline to assist students with academic regulations.
- Utilized vector embeddings to accurately retrieve and synthesize information from university policy documents.
- Containerized the application using Docker for consistent deployment.

Construction ERP System | React.js, Node.js, SQL

- Built a comprehensive ERP module to manage project lifecycles, resource allocation, and financial tracking.
- Designed a scalable RESTful API backend and optimized database queries for reporting performance.

TECHNICAL SKILLS

Languages: C, C++, Python, Java, JavaScript, SQL

Embedded Systems: STM32, ARM Cortex-M, UART/I2C/SPI, ADC/DMA

Frameworks & Libraries: React.js, React Native, Node.js, REST APIs

Tools & Platforms: Git, Docker, Unix/Linux, STM32CubeIDE

Areas of Interest: Mobile App Development, Embedded Software, IoT, RAG (Retrieval-Augmented Generation), FinTech

LANGUAGES

Turkish: Native | **English:** Advanced | **Italian:** Basic