Emir Eroğlu

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Education

Bilkent University   2022 – 2026 (Expected)
Computer Science | GPA: 3.46/4.00   *Ankara, Turkey*

Gazi Anatolian High School   2018 – 2022
Diploma Score: 94.93/100   *Ankara, Turkey*

Experience

Alrod Dynamics | *Intern*   August 2025 – September 2025
Computer Vision, Object Detection and Classification   *Ankara, Turkey*

- Developed deep learning–based object detection models to identify anomalies in solar panels from drone-captured thermal images.
- Conducted model training, data augmentation, and performance analysis using the **RF-DETR (Detection Transformer)** architecture on the **Roboflow** platform with **Python**.

ASELSAN | *Intern*   July 2025 – August 2025
Java Web Development   *Ankara, Turkey*

- Contributed to the development of a dependency analysis tool to make the codebase more structured and modular using **Java** and **Spring Boot**.
- Designed an interactive interface to visualize dependency relationships using **React** and **TypeScript**.

ASELSAN | *Candidate Engineer*   February 2025 – June 2025
Artificial Intelligence and Natural Language Processing   *Ankara, Turkey*

- Conducted research on AI applications in requirements analysis.
- Worked on the integration of **Retrieval-Augmented Generation (RAG)** models.

Projects

Bilkent Navigator | *MERN Stack*   December 2024

- Developed a web application for Bilkent University's Information Office to streamline campus tour bookings for high school students and counselors.
- Designed features including an automated campus tour request system, real-time email notifications, role-based user interfaces, guide calendar management, and a guide rating system.
- Implemented the application using the **MERN Stack (MongoDB, Express.js, React.js, Node.js)**.

Hotel Booking & Management System | *Flask, SQLite*   May 2025

- Developed a web application supporting guest, hotel manager, and admin roles to facilitate hotel booking processes.
- Implemented features such as hotel search and filtering, room reservations, wallet-based payments, review system, and a loyalty program.
- Used **Flask**, **SQLite**, and **Bootstrap 5** throughout the development process.

Bilconnect | *Java*   June 2023

- Developed an Android application aimed at enhancing campus social life at Bilkent University by enabling students to create and join events.
- Used **Java**, **Firebase**, **Android Studio IDE**, and **GitHub** throughout the development process.

Technical Skills

Programming Languages: Java, C++, Python, Assembly
Web & Database: React, HTML, CSS, MongoDB, MySQL
Hardware: SystemVerilog
Tools: Git, GitHub, VS Code, IntelliJ, Android Studio, Vivado, UML
Languages: Turkish (Native), English (Professional Working Proficiency)

Achievements & Certifications

Bilkent Artificial Intelligence Summer School Certificate (2021), Bilkent University High Honor Certificates (2023, 2025), Honor Certificate (2024)