

Safa Berberoğlu

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Profile

Dynamic Computer Engineering student and technical community lead with a strong focus on cross-platform software development and scalable backend architectures. Proven ability to build secure, data-driven applications and lead tech initiatives, including co-founding the university's **AWS Student Club**. Motivated to build high-performance, scalable systems and distributed backend architectures across diverse industries by leveraging expertise in .NET, Java, and Python.

Professional Experience

Technical Team Lead, Huawei Student Developers, Edirne

Dec 2025 to Present

- Spearheaded hands-on hardware bootcamps, training an 80-person cohort in embedded systems and IoT architecture from scratch.
- Facilitated cross-university tech panels and virtual seminars, driving community engagement and technical discourse.

IT Support Specialist (Part-Time), Trakya University, Department of Information Technology, Edirne

Dec 2025 to Present

- **Managed** database operations and utilized graphical user interfaces (GUI) to ensure smooth technical workflows.
- **Provided** technical support for mobile applications and managed operational data tracking workflows to ensure accurate reporting.

IT & Administrative Assistant (Part-Time), Trakya University, Department of Student Affairs, Edirne

Jan 2025 to Jun 2025

- **Streamlined** student form processing and document management operations using MS Office applications.
- **Designed** and deployed the English version of the Student Affairs website to improve accessibility and user experience for international students.

Education

Trakya University, Edirne Computer

Engineering, Oct 2023 to Jun 2027

- Relevant Coursework: Software Engineering, Data Structures, Web Technologies, and Embedded Systems.
- Focus Areas: Full-stack web & mobile application development, IoT hardware integration, and cross-platform software architecture.
- Activities: Developing hardware-software integrated projects, organizing technical workshops, and actively participating in developer communities.

Projects

DevDiary – Privacy-Focused AI Note Analyzer (2026)

- **Engineered** a privacy-centric backend utilizing **FastAPI** to integrate **Local LLMs** for automated note categorization and sentiment analysis.
- **Developed** a secure **RESTful API** architecture with **PostgreSQL** to manage data persistence while ensuring zero-cloud dependency for user data.

Examify – Exam Preparation App (2025)

- Developed a real-time data tracking infrastructure using Flutter and Firebase, allowing users to analyze their test scores and compare results with peers.

Smart Remote – IoT TV Control System (2026)

- **Engineered** a real-time IoT system integrating NodeMCU (C++) and a Flutter application via **MQTT protocol** for low-latency device control and state synchronization.
- **Implemented** an IR-based hardware interface to bridge physical home appliances with a modern mobile dashboard.

Areas of Expertise

Backend & Cloud: .NET / ASP.NET Core, Java, Python, FastAPI, AWS

Frontend & Mobile: Flutter, Dart, HTML/CSS/JavaScript

Database: SQL, PostgreSQL, Firebase

Core Engineering: C/C++, Embedded Systems, VHDL