

MELİHHAN FAKİR

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Double-degree graduate in Computer Engineering and Electrical & Electronics Engineering, experienced in backend development, networking technologies, and embedded systems. Skilled in building secure, scalable, and high-performance software systems, with a strong interest in analytical problem-solving and advanced system architecture.

EDUCATION

Antalya Bilim University

Bachelor's, Computer Engineering

Faculty of Natural Sciences and Engineering

Antalya, Turkey

September 2020 – June 2025

- 100% Full Scholarship Merit
- Honors/Awards: High Achievement Certificate
- GPA: 3.54 / 4.0 (Medium of instruction: English)

Antalya Bilim University

Bachelor's, Electric and Electronics Engineering

Faculty of Natural Sciences and Engineering

Antalya, Turkey

August 2020 – June 2025

- 100% Full Scholarship Merit
- Honors/Awards: Ranked 2nd in the Department
- GPA: 3.48 / 4.0 (Medium of instruction: English)

WORK EXPERIENCE

ASELSAN A.Ş.

Intern, Communications and Information Technologies Vice Presidency

Ankara, Turkey

June 2024 – July 2024

- Developed backend services using .NET technologies for the secure remote monitoring and management of cryptological devices.
- Supported database architecture development, query optimization, and data management processes using Microsoft SQL Server (MSSQL).
- Contributed to software testing, debugging, performance optimization, and system reliability enhancement activities.
- Participated in the design and implementation phases of device communication, telemetry, and monitoring infrastructures.

BLADECO YATIRIM A.Ş.

Intern

Isparta, Turkey

July 2024 – August 2024

- Contributed to the development of Open Charge Point Protocol (OCPP) based software solutions and the optimization of charging infrastructure processes.
- Involved in backend development to enhance end-to-end data transmission and device management processes between charging stations and central systems.
- Gained technical expertise in electric vehicle charging system architectures, protocol-based communication standards, and scalable system design.

- Contributed to the SDLC (Software Development Life Cycle) of university-wide web and mobile software projects, developing modular and sustainable code architectures.
- Collaborated with multidisciplinary teams within Agile/Scrum frameworks to improve IT operations, identifying performance bottlenecks in digital services and optimizing system resources.
- Engaged in the integration processes of diverse hardware units into the institutional network and software infrastructure.

PROJECTS

TÜBİTAK 3005 Research Projects

Scholarship Researcher

Antalya, Turkey

February 2024 – June 2024

- Developed application features using React Native and integrated cloud-based services (authentication, real-time database, etc.) via Firebase.
- Implemented advanced mapping and real-time location-based functionalities (geofencing, route tracking) utilizing the Google Maps API.
- Participated in application testing, user experience (UX) enhancements, and technical documentation processes in coordination with the project team.

Personal Portfolio

2024 – Ongoing

- Developed front-end applications using React and Next.js, leveraging a responsive and component-based architecture.
- Built robust back-end services and RESTful APIs utilizing .NET technologies.
- Managed deployment, version control, and project integration workflows using Git-based development practices.

ACADEMIC PUBLICATIONS AND PAPERS

Poster Presentation: “Flexible Supercapacitors for Energy Storage: A Study of Their Design and Fabrication” – III. National & I. International Nanotechnology and Polymer Days (UNIPG 2025), Isparta, Türkiye

Poster Presentation: “Dual-Functional Carboxymethyl Cellulose/Carbon Dot Hydrogels for Efficient Adsorption and Optical Detection of Fe³⁺ Ions in Aqueous Media” – Anatolian Conference on Organic Chemistry (ACOC5), Antalya, Türkiye

LANGUAGE SKILLS

	Listening	Reading	Speaking	Writing
English	C1	C1	B2	C1

Levels : A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

TECHNICAL SKILLS

General: Analytical Thinking, Problem Solving, Technical Documentation, Teamwork & Collaboration

Programming: C, C++, C#, Python, Java, Rust, Javascript, Typescript

Backend & Database: Node.js, .NET, Spring Boot, WebSocket, MSSQL, PostgreSQL, MySQL, MongoDB, Firebase, Supabase, Redis

Embedded Systems: IoT Systems, ARM-Based Systems, Real-Time Systems, Microcontrollers

Tools: Git, Docker, Linux, Photoshop, Figma