BARIŞ CAN ASLAN

COMPUTER ENGINEERING STUDENT

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I have experience in developing and deploying full-stack applications across domains such as smart systems, robotics, and web technologies. Skilled in using frameworks like ASP.NET, Spring Boot, and Docker, with a strong focus on system integration, remote access, and UI design. Also experienced in collaborating on cross-disciplinary teams to deliver scalable and self-hosted solutions.

EDUCATION

KADIR HAS UNIVERSITY - Istanbul, Turkey
4th Year - B.Sc. in Computer Engineering
Expected Graduation: 2026 | **GPA:** 3.00

FIGEN SAKALLIOĞLU ANATOLIAN HIGH SCHOOL - Sakarya, Turkey
Graduated: 2020

TECHNICAL SKILLS

Languages: C#, C++, Java, Python, JavaScript, HTML, CSS, SQL

Frameworks & Tools: ASP.NET Core, Spring Boot, React, Docker, Qt (QML), REST APIs

DevOps & OS: Debian-based systems, Cloudflare Tunnels, GitHub

Other: MySQL, MSSQL, JSON, Linux Shell, Wireshark

Soft Skills: Fast learner, team-oriented, analytical thinker, diligent and adaptable

CERTIFICATES

- Web Development with HTML5 – **BTK Akademi**
- Python - **Kaggle**
- React Basics - **Meta**
- Automate Cybersecurity Tasks with Python – **Google**

INTERESTS

- AI and Robotics
- DevOps Automation
- IoT Tech.
- Machine Learning

WORK EXPERIENCE

Guess Europe SAGL

IT Intern | Part Time - *(August 2025 - Present)*

- Management of all IT processes, from software development with ASP.NET to hardware control, HelpDesk service

Kadir Has University

Teaching Assistant - *(September 2025 - Present)*

CMPE351 - Computer Networks Course

INTERNSHIP EXPERIENCE

İÇDAŞ Çelik Enerji Ulaştırma A.Ş.

IT Intern - Summer 2024

- Gained hands-on experience in enterprise networking, server management, and system automation
- Acquired ASP.NET technology and its usage areas

BTC Bilişim Hizmetleri A.Ş.

Software Development Intern - Summer 2025

- ASP.NET Web API services and developing Angular-based web applications as part of the software development team.

PROJECT EXPERIENCE

Track Your Best | IoT & AI-Powered Smart Mobility Platform – ESP32, MQTT, ASP.NET Web API, React (Next.js), PostgreSQL

Graduation Project – (2025 – Present)

- Building an end-to-end GPS tracking platform that collects real-time location data from SIM-enabled ESP32 devices and streams it securely to the cloud using TLS-encrypted MQTT
- Designing and implementing a scalable backend with ASP.NET Web API and PostgreSQL spatial data types to store and query large volumes of geo-tagged movement data
- Developing a responsive Next.js dashboard with live maps, route history, and performance charts to visualize real-time and historical mobility patterns
- Integrating machine learning models to analyze spatio-temporal data for route optimization, anomaly detection, and ETA prediction, enabling data-driven mobility insights

RovALP | Unmanned Ground Vehicle (İKA) - ROS2 - React (Next.js) - FastAPI

Software Developer – (2025 - Present)

- Developing a real-time web-based ground control station for the UGV using React (Next.js) and FastAPI
- Integrating ROS2 nodes and WebSocket bridges to stream live telemetry, sensor data, and camera feeds to the web interface
- Implementing bidirectional communication between the UGV and operator for command, control, and feedback loops
- Designing modular UI components for vehicle diagnostics, path tracking, and sensor visualization
- Managing backend REST and WebSocket endpoints to interface with ROS2 topics, services, and parameters

Restaurant Reservation System Project – Spring Boot + React + MySQL

Project Link: https://github.com/bariscanaslan/Restaurant-Reservation-System

- Implemented user authentication using JWT and role-based access
- Built a dashboard for restaurant owners to manage tables, reservations, and API keys
- Embedded reservation widgets into external websites using secure iframe + token mechanism

Employee Tracking System Project – ASP.NET MVC + HTML, CSS, Bootstrap + MSSQL

Project Link: https://github.com/bariscanaslan/Employee-Tracking-System-Project

- Developed a web-based personnel management system with role-based access control
- Designed responsive front-end using Bootstrap for mobile-friendly UI
- Implemented CRUD operations for employee data, departments, and tasks

Self-Hosted Home Server Project – Debian + Docker + Cloudflare

Private Infrastructure for **Hosting, Personal Cloud, and IoT Control**

- Built a Debian-based headless home server system utilizing Docker containers for modular service deployment
- Integrated CasaOS as the internal dashboard for managing applications and system monitoring
- Configured Cloudflare Tunnels to securely expose internal services (e.g., web apps, personal cloud, dashboards) to the internet without opening ports
- Used self-hosted tools for file storage, personal calendaring, and RSS feed management with a focus on data privacy
- Enabled remote monitoring and control of IoT devices via isolated networks, promoting both functionality and security