

Furkan Özdemir

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EXPERIENCE

iLAB - Istinye University

Oct. 2025 – Present

Active Project Developer

Istanbul, TR

- Collaborating with a team within the **iLAB environment** to develop and implement software solutions.
- Gaining hands-on experience in **full-stack development** and modern software engineering practices.

Big Beta Technology Inc.

Aug. 2025 – Sept. 2025

Software Developer Intern

Istanbul, TR

- Developed software projects utilizing **.NET technologies** and C# for backend services.
- Contributed to **database management** and API design processes in a professional development environment.
- Gained practical experience in real-world software development workflows and **Agile/Scrum** methodologies.

PROJECTS

Cloud-based RFID and IoT-enabled Smart Boat Reservation and Fleet Management System

- Collaborating with a team to develop a cloud-based **IoT and RFID-enabled** system for managing boat rentals across multiple locations like hotels and marinas.
- Architected the software layer using **NestJS** and **Prisma ORM** with a **PostgreSQL** database, ensuring a scalable relational data model for users, boats, and transaction logs.
- Developed responsive web interfaces with **Next.js** and **Tailwind CSS**, implementing role-based access control (Admin, Operator, Service) secured via **JWT**.
- Integrated real-time data synchronization between the cloud backend and hardware stations using **Socket.IO**, enabling live monitoring of boat sessions and automated usage tracking.
- Successfully commercialized the project as a team, resulting in the sale and real-world deployment of the system.

Voice-Based Speaker Identification System

- Built a voice-based speaker identification system using **Python** to process audio files and classify speakers with high accuracy.
- Extracted **MFCC features** from audio data using the **Librosa** library and implemented machine learning models for feature classification.
- Utilized **scikit-learn**, **TensorFlow**, and **CNN** architectures to train and evaluate the model's performance on diverse voice datasets.

Helm Dashboard Interface

- Designed and developed a real-time helm dashboard interface to visualize critical live telemetry data for boat users.
- Processed incoming data from an **STM32** microcontroller (transmitter side) to display live metrics including motor RPM, remaining token balance, elapsed usage time, and boat identification number.
- Utilized a **Raspberry Pi 3** to handle the incoming data streams, manage data processing, and smoothly drive the physical display interface.

EDUCATION

Istinye University

Oct. 2022 – June 2026

B.S. in Software Engineering

Istanbul, TR

TECH STACK

Network, Systems & DevOps : Docker, Linux,

Languages : C#, C++, JavaScript, TypeScript, Python, SQL

Backend, Web & Databases : Node.js, Nest.js, React, Next.js, PostgreSQL, MySQL, MongoDB

AI / ML : TensorFlow, scikit-learn, Librosa, CNN

Embedded / IoT : Raspberry Pi, Arduino, ESP32

Tools & Platforms : Git, GitHub, Postman, Cursor, Claude Code

LANGUAGES

Turkish : Native

English : B2