

# Barış Atala

## Software Engineer

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### About

Software Engineering student developing scalable web and mobile applications using React, Next.js, and Flutter. Creating projects focused on IoT automation with Raspberry Pi and AI integration; simultaneously providing commercial web solutions as a freelance developer. Passionate about solving complex problems with modern technologies and committed to continuous learning.

### Professional Experience

#### Full Stack Developer

*Freelance*

09/2025 – Present  
İstanbul (Remote)

- Developed SEO-friendly, responsive, and end-to-end web solutions using **React**, **Next.js**, and **WordPress** tailored to client requirements. Optimized digital
- business processes using **Firebase**-based real-time management systems and **Python** automation bots. Managed client relations, time management, and the full
- project lifecycle independently to deliver turnkey products.

#### IT Intern

*TOFAŞ Türk Otomobil Fabrikası A.Ş*

06/2025 – 07/2025  
İstanbul

- Collaborated with the IT department to develop a spare parts management web application using **React**, **Angular**, **TypeScript**, and **JavaScript**.
- Actively contributed to the design of the admin panel and user interface.
- Gained professional teamwork experience using **Agile** methodologies and **Git** version control system.

#### R&D Intern

*Emko Elektronik A.Ş*

07/2024 – 08/2024  
Bursa

- Conducted studies on **IoT devices**, **microcontrollers**, and **PLC** systems to develop industrial automation solutions.
- Supported testing processes of **embedded system** software and hardware integrations, contributing to production line automation knowledge.

### Projects

#### AI Based Legal Simulation

*React Native, Generative AI, LLM Integration*

- A simulation platform developed with **React Native** featuring an AI-powered "virtual lawyer" module to provide law students with real trial experience. Designed an algorithm where users defend against an opposing AI
- lawyer in generated scenarios; the system analyzes arguments to detect gaps and provides development-oriented feedback. The project prototype has been approved by university administration, and application
- processes for **TÜBİTAK** and **BAP** support are currently underway.

## DreamTales - AI Supported Fairy Tale App

*Flutter, Dart, Generative AI, Text-to-Speech*

- Developing a cross-platform mobile application using **Flutter** that generates instant fairy tales based on user-selected characters, settings, and themes.
- Integrated **Generative AI** models to create unique and educational story plots that enhance children's imagination.
- Incorporated **Text-to-Speech** technology to allow generated tales to be listened to audibly.

## Industrial Image Processing Automation (IoT)

*Raspberry Pi, Python, OpenCV, Embedded Systems*

- Developed an image processing system prototype using **Raspberry Pi** and **OpenCV** to detect and classify products on a conveyor belt via camera.
- Wrote **Python** algorithms to analyze image data instantly for defect detection and automated physical sorting by triggering servo motors.
- Designed a low-cost, high-accuracy embedded system architecture compliant with industrial automation standards.

## Fit-App - AI Fitness & Nutrition Assistant

*React, Node.js, MySQL, LLM, Tailwind CSS*

- Designed modern interfaces using **React** and **Tailwind CSS**, and processed user data on a **Node.js** and **MySQL** infrastructure within a 5-person project team.
- Integrated **LLM** technology to develop AI modules that generate dynamic workout and nutrition programs based on personal health goals.
- Ensured the integration of Frontend interfaces with Backend services (API Connections) and conducted functional testing processes.

## Education

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### Bachelor of Science in Software Engineering

Doğuş University

2022 – Present

İstanbul

### High School

Enerjisa Bandırma Fen Lisesi

2018 – 2021

Bandırma

## Skills

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### Programming Languages

- JavaScript
- Python
- Dart
- SQL

### Web Technologies

- React.js
- Angular
- Next.js
- Node.js
- Tailwind
- CSS
- HTML5

Wordpress

### Mobile Development

- Flutter
- React Native

### Tools & Platforms

- Git & GitHub
- Firebase
- MySQL
- Raspberry Pi (IoT)
- Docker
- VS Code
- Xcode

### Languages

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#### Türkçe

Native

#### English

Professional Working Proficiency

#### Spanish

Basic