

Bariş 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

09/2025 – Present

Freelance

Istanbul (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

06/2025 – 07/2025

TOFAŞ Türk Otomobil Fabrikası A.Ş

Istanbul

- 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

07/2024 – 08/2024

Emko Elektronik A.Ş

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

Bachelor of Science in Software Engineering <i>Doğuş University</i>	2022 – Present İstanbul
High School <i>Enerjisa Bandırma Fen Lisesi</i>	2018 – 2021 Bandırma

Skills

Programming Languages	Web Technologies	Mobile Development	Tools & Platforms
<ul style="list-style-type: none">• JavaScript• Python• Dart• SQL	<ul style="list-style-type: none">• React.js• Angular• Next.js• Node.js• Tailwind• CSS• Html5Wordpress	<ul style="list-style-type: none">• Flutter• React Native	<ul style="list-style-type: none">• Git & GitHub• Firebase• MySQL• Raspberry Pi (IoT)• Docker• VS Code• Xcode

Languages

Türkçe Native	English Professional Working Proficiency
Spanish Basic	