Ozan Ahmet Dede

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Professional Summary

Computer Engineering senior with hands-on experience across **web** (React, Node.js/Express, MongoDB) and **embedded** (Arduino, HC-05/HC-SR04). Comfortable taking features from idea to delivery using Git/GitHub, writing clear, maintainable code, and collaborating in small teams. Open to software engineering roles across frontend, backend, or embedded.

Keywords: React · React Router · Node.js · Express · REST API · MongoDB · Git · GitHub · Docker · Vite · JavaScript (ES6+) · Java · C/C++ · Python · Arduino · HC-05 · HC-SR04 · L298N

Experience

Information and Communication Technologies Authority (BTK) — Intern, Ankara, TR
Jul 28, 2025 – Aug 22, 2025

- Delivered small UI and feature tasks in internal web tools (React + REST) under guidance of two supervising engineers.
- Practiced collaborative Git/GitHub: branching, pull requests, code reviews, and issue triage.
- Completed security/data-handling orientation; drafted concise how-to notes for newcomers.
- Reported progress, blockers, and next steps in short stand-ups.

Selected Projects

FitVerse — Fitness web platform (ongoing)
React, Vite, HTML/CSS/JS; planned backend: Node.js/Express + MongoDB

- Built a multi-page responsive UI: Home, **Movements (interactive muscle map)**, Fit Recipes, **Calculators** (BMI, Calorie, Body Fat), **My Status** (charts), FAQ, Login/Settings/Profile.
- Reusable navbar/footer includes; localStorage-based rating/favorite/difficulty interactions; consistent page templates.

- Backend prep: REST API design (auth, profile sync, status data), MongoDB schema drafts; CI/CD & Docker plan.
- [FitVerse | Home](#)

Restaurant Management Web App — Frontend
React, Context API, React Router

- Implemented role-based routing and protected admin views; waiter/cashier flows (orders, quantity updates, confirmations).
- Visual table states (**empty/reserved/occupied**), reports page skeleton; coordinated API contracts with a Java backend team.
- [OAdede/BTK_Restaurant_APP](#)

4WD Arduino Robot Car (Competition)
Arduino Uno, L298N, YL-70 line sensor, HC-05 Bluetooth, HC-SR04 ultrasonic

- Line-following logic and Bluetooth control (commands **F/B/L/R/S**; **X** start line-follow / **Y** stop).
- Ultrasonic-based stop for obstacle detection; single wiring layout usable for both modes.

Smart Sensor Dashboard (Learning Project)
Arduino + Python (serial)

- Streamed sensor data over serial and prototyped real-time plotting in Python; explored simple anomaly hints.

Skills

- **Languages:** JavaScript (ES6+), Java, C/C++, Python, C#
- **Frontend:** React, React Router, Context API, Vite; responsive CSS
- **Backend:** Node.js, Express, REST API design, MongoDB (in progress), JWT basics
- **Embedded/Hardware:** Arduino IDE, HC-05 Bluetooth, HC-SR04 ultrasonic, L298N motor driver, sensor integration
- **Tools & DevOps:** Git/GitHub, GitHub Desktop, NPM; basics of Docker & CI/CD

Education

Süleyman Demirel University — B.Sc. Computer Engineering
Isparta, Türkiye · *Expected Jun 2026*

- Relevant coursework: Data Communications, Computer Networks, Data Structures & Algorithms, OOP, Database Systems

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Additional

- **Languages:** Turkish (native); English (working proficiency)
- **Activities & Interests:** Theatre, camping, hackathons/tech meetups