



ANIL YILMAZ

SOFTWARE DEVELOPER

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ABOUT

Backend-focused Full Stack Developer with 4+ years of experience building scalable web and mobile applications. Experienced in Node.js (NestJS, Fastify, Express), Angular, React, and Flutter, with a strong focus on real-time systems, scalable APIs, and modern software architecture. Skilled in system modernization, performance optimization, and event-driven development using Kafka, Socket.io, and BullMQ. Passionate about clean architecture, problem solving, and building production-ready applications.

WORK EXPERIENCE

Yeditepe University – Software Developer

04.09.2023 – Present

- Led the migration of legacy Angular applications from Angular 12 to Angular 20, improving scalability, maintainability, and application performance.
- Played a key role in rebuilding the Student Information System by migrating core modules (transcripts, reports, curriculum) to a new platform (Academic7).
- Designed and developed scalable backend services using Node.js (NestJS, Fastify), applying modular architecture and clean code principles.
- Built RESTful APIs with request validation, centralized error handling, and middleware-based authorization mechanisms.
- Implemented caching strategies using Redis to reduce API response time and improve overall system performance.
- Designed background job processing for heavy operations (grade calculations, report generation) using BullMQ, ensuring reliable and asynchronous task execution.
- Applied event-driven architecture to decouple services and improve system scalability.
- Built real-time communication features using WebSocket (Socket.io), enabling instant updates for critical data such as grades and announcements.
- Integrated ELK Stack for centralized logging and monitoring, improving system observability and debugging efficiency.
- Developed reusable and scalable UI components using Angular and React with a modular component architecture.
- Implemented role-based dynamic UI rendering based on user permissions.
- Built complex dynamic forms with validation for course selection, grading, and reporting workflows.
- Redesigned notification infrastructure using Firebase Cloud Messaging (FCM) to support real-time user engagement.
- Developed a rule-based automation system for dormitory management, enabling automatic student placement.
- Contributed to architectural decisions and improved code quality through best practices and code reviews.
- Collaborated with the software team to integrate Oracle-based authentication infrastructure with Keycloak, improving centralized identity and access management.

SERTPLAS – Software Developer

14.10.2024 – 27.06.2025

- Developed and maintained a cross-platform IoT mobile application using Flutter and Firebase for managing electric charging devices via Bluetooth Low Energy (BLE).
- Implemented real-time BLE communication and device control using flutter_reactive_ble and Philips Hue SDK integrations.
- Designed scalable backend workflows with Firebase Functions for push notifications, automation, and scheduled background tasks.
- Built secure and responsive application architecture using Firebase Authentication, Cloud Firestore, Firebase Storage, and Cloud Functions.
- Applied GetX for scalable state management, dependency injection, and route management to improve application maintainability and performance.
- Managed end-to-end mobile release processes, including deployment to Google Play Store and Apple App Store with TestFlight distribution and testing.

TAKITAK – Software Developer

03.10.2023 – 30.07.2024

- Developed a cross-platform social gifting application for weddings, engagements, and special events using Flutter, Node.js, and Firebase.
- Implemented scalable mobile architecture with GetX for state management and navigation.
- Integrated multiple payment gateways including Sipay, N Kolay, and Teqpay for secure in-app transactions.
- Developed dynamic invitation and deep linking features to redirect users directly to event pages inside the application.
- Integrated Google Maps API for event location management and navigation features.
- Built QR-based private invitation system for secure event access and participant validation.
- Implemented interactive social features including comments, likes, and public/private event management.
- Managed application testing and release processes via Google Play Console and Apple TestFlight.

BuzzTech Software and Engineering – Software Developer

02.09.2022 – 31.12.2022

- Development of separate mobile applications for customers, staff and admin of a logistics company with Flutter. Technologies used in this app: Flutter, SQL Server, Firebase, Node.js and 3rd party packages of Flutter.

Yeditepe University – Intern

01.08.2022 – 26.08.2022

- Development of Yeditepe University Academic and Staff Satisfaction Survey mobile application with Flutter. Technologies used in this app: Flutter, PostgreSQL, Firebase, Node.js and 3rd party packages of Flutter.

Hemosoft IT & Training Services Inc. – Intern

27.06.2022 – 27.07.2022

- Developing a sample collection mobile application with Flutter. Technologies used in this app: Flutter, PostgreSQL, Firebase, Node.js and 3rd party packages of Flutter.

SKILLS

- Programming & Frameworks: Dart (Flutter), TypeScript (Angular, React), JavaScript, Node.js (Express, Fastify, NestJS)
- Mobile Development: Flutter, BLE (flutter_reactive_ble), Firebase (Auth, Firestore, Storage, FCM, Functions)
- Web Development: Angular, React, RESTful API, Firebase Hosting
- DevOps & Tools: Git, Docker, Redis, Firebase Emulator, Jira, Confluence
- Methodologies: Agile, Scrum

PROJECTS

- Yeditepe (Yeditepe University official mobile application)
- A7 (Academic & Student Information Management System)
- I7 (Administrative Staff Management System)
- myVolti (It is an IoT project developed for Sertplas Company)
- TAKITAK (Official mobile application of TAKITAK company)
- PortfolioApp (<https://portfolio-9ab74.web.app/>)
- npm Packages – Published 3 open-source Node.js packages: fastify-smart-errors · express-response-builder · express-policy-guard
- YouTube Studio Notes – Chrome Extension that translates any YouTube video in real-time to Turkish, generates TXT/PDF output, and shows word tooltips with translations on hover

EDUCATION

Cukurova University

- B.Sc. Computer Engineering (English) | 2018 – 2023 | GPA: 3.11

LANGUAGES

- Turkish (Native Language)
- English (Full Professional Proficiency)