

EREN ÖZEN

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EDUCATION

İhsan Doğramacı Bilkent University

June 2026

Bachelor of Science in Computer Engineering

Relevant Coursework: Digital Design (CS 223), Computer Organization (CS 224), Programming Languages (CS 315), Object-Oriented Software Engineering (CS 319), Database Systems (CS 353), Operating Systems (CS 342), Software Engineering Project Management (CS 413).

Final Mardin High School

Graduation Diploma, Science Track

EXPERIENCE

OGEM OTOMASYON

June 2025 – August 2025

Qt Application Developer

- Developed a desktop application for RADGUS, a certified radiation measurement device, using C++, QML, and the Qt framework.
- Implemented core features including real-time data monitoring, event logging, and system-wide alerts.
- Engineered the application for deployment in high-compliance environments, including medical and scrap waste facilities.

SELECTED PROJECTS

CarTrade-Marketplace - Full-Stack Vehicle Marketplace

- CarTrade is an innovative platform for buying and selling second-hand vehicles, connecting buyers, sellers, inspectors, and administrators in one cohesive marketplace. It emphasizes a seamless user experience, robust data integrity, and modular services for scalable deployment.
- Developed a Docker-composed system with Next.js frontend, FastAPI backend, and MySQL database (triggers & views) for auction management.
- Implemented real-time bidding notifications via Google Cloud Pub/Sub, automated image processing via FFmpeg

CarboMeter - Java Desktop App

- CarboMeter is a Java Swing application that quantifies users' ecological footprints with a custom "Carbopoint" metric and visualizes progress via an intuitive Carbobar chart. It encourages users to make charitable donations equivalent to their calculated impact.
- Created an environmental impact calculator in Java using SQLite and JavaMail.
- Designed a "Carbopoint" scoring algorithm and donation recommendation engine.

Sprout - Android Habit Tracker

- Sprout is a legacy-Java Android app for summarizing daily activities, built in Android Studio and backed by Cloud Functions. It helps users visualize where their time goes and cultivate healthy habits.
- Built an Android App in Java with Firebase (Auth, Functions, Firestore) for daily habit tracking.
- Delivered a weekly analytics dashboard and push-notification reminders to boost engagement.

BIL-CMS - University Communication Platform

- This full-stack JavaScript app enhances Bilkent University's CMS with structured discussions, event scheduling, and live chat channels per course. It streamlines campus collaboration through a cohesive web interface.
- Implemented discussion boards, real-time chat, and event modules using JavaScript, HTML, and CSS.
- Leveraged WebSocket for live updates and applied role-based access control.

TECHNICAL SKILLS

Programming Languages & Paradigms: Python, C++, Java, MIPS Assembly, Qt & QML, SQL, Object-Oriented Design

Web & Backend: Next.js, Express.js, FFmpeg integration

Cloud & DevOps: Google Cloud (Storage, Pub/Sub, Run), Docker, Firebase Auth/Functions/Firestore

Tools & Frameworks: Git/GitHub, RESTful APIs, Linux/Unix Shell Scripting,

Algorithms & Design: Data Structures, System Design, Complexity Analysis

Languages: Turkish (native), English (professional fluency), German (beginner)