

# EREN ÖZEN

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## EDUCATION

**İhsan Doğramacı Bilkent University**  
Bachelor of Science in Computer Engineering

June 2026

## 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 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.

## CERTIFICATIONS

- AWS Certified Cloud Practitioner
- AWS Certified AI Practitioner
- Google Business Intelligence Certificate

## SELECTED PROJECTS

**TrAIner - Flutter, Dart, Firebase, ONNX Runtime**

- Built a cross-platform iOS/Android fitness app that uses on-device pose estimation to analyze exercise form, count reps in real time, and deliver live coaching feedback.
- Developed a real-time camera and inference pipeline in Flutter, integrating ONNX Runtime for low-latency pose detection and live visual feedback.
- Implemented workout tracking with session history, streaks, and progress analytics; added coach-athlete workflows with role-based auth and team management via Firebase.

**AECCS Cookie Compliance Checker - JavaScript, WebExtensions, Python, Playwright**

- Built a Chrome/Firefox extension that audits GDPR cookie-consent flows on the active site by detecting CMPs, dark patterns, live cookies, third-party cookies, and trackers.
- Implemented session-limited post-interaction analysis to compare before/after consent state, classify accept/reject/essential outcomes, and score whether sites honor user choices.

**PICT Improved - Python, CLI, Combinatorial Testing**

- Built a cross-platform CLI tool that generates provably minimal pairwise test suites via multi-seed optimization with mathematical coverage verification, lower-bound early-stop, 82 automated tests, and CI/CD.

**CppDocxTemplate - C++, Qt6, CMake, pugixml**

- Developed a lightweight C++ library for DOCX template filling (text, images, bullet lists, tables, headers/footers) with a clean CMake build and auto-fallback dependency resolution.

**CarTrade-Marketplace - Next.js, FastAPI, MySQL, Docker, Google Cloud Pub/Sub**

- Developed a Docker-composed full-stack vehicle marketplace with Next.js frontend, FastAPI backend, MySQL (triggers & views), real-time bidding via Google Cloud Pub/Sub, and automated image processing via FFmpeg.

**Sprout - Java, Android Studio, Firebase**

- Built an Android habit tracker with Firebase (Auth, Functions, Firestore) for daily tracking and a weekly analytics dashboard with push-notification reminders.

## TECHNICAL SKILLS

**Cloud & DevOps:** AWS (Certified Cloud Practitioner, Certified AI Practitioner), Google Cloud (Storage, Pub/Sub, Run), Docker, Kubernetes, Linux, Firebase Auth/Functions/Firestore

**Programming Languages:** Python, C++, Java, MIPS Assembly, SQL, Dart

**Web & Mobile:** Next.js, Express.js, Flutter, FastAPI, FFmpeg

**Tools & Frameworks:** Git/GitHub, RESTful APIs, CMake, ONNX Runtime, Shell Scripting, Qt & QML

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