Mertcan Korkmaz

Computer Engineer

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SUMMARY

Computer Engineering graduate building a career in Data Science and AI. Hands-on experience with Python for data analysis and full-stack development using React/Next.js and FastAPI. Currently building independent portfolio projects (a B2B trading platform, data automation tools, cross-platform mobile/web apps) driven by real user needs. I actively use AI-assisted development tools (vibe coding) to move quickly from idea to working product.

TECHNICAL SKILLS

Programming Languages: Python, TypeScript, JavaScript, C#, Java, C, PHP, SQL

Frameworks & Libraries: React, Next.js, React Native, FastAPI, Firebase, Zustand, TanStack Query

Infrastructure & Tools: PostgreSQL, MySQL, Turborepo, Capacitor, Node.js, Vercel, Render, Git

Languages: Turkish (Native), English (B2)

PROJECTS

Bidstone — B2B Natural Stone Trading Platform

Personal Project · 2025 – Present

Technologies: FastAPI, PostgreSQL, Next.js, React Native/Expo, Turborepo

- Designing and building a B2B broker platform for marble, travertine, and granite trading that anonymizes buyers and sellers, routing all communication through the platform.
- Manage a single Turborepo monorepo housing both the web (Next.js) and mobile (React Native/Expo) clients, sharing common packages and types.
- Built a scalable backend architecture with FastAPI and PostgreSQL; also driving productization steps such as trademark registration and domain strategy.

CineTrack — Movie & TV Show Tracking Platform

Personal Project · 2025 – Present

Technologies: React 18, TypeScript, Firebase, TanStack Query, Capacitor, Node.js, Claude API, Groq API

- Built a movie/TV discovery and tracking platform integrated with the TMDB API; shipped as a web app (Vercel) and as a native Android TV app packaged with Capacitor.
- Set up an npm workspaces monorepo architecture with a shared package for the TMDB client, types, and hooks consumed from a single source.
- Designed an end-to-end user system on Firebase Auth + Firestore covering profiles, watchlists, activity feed, and user-to-user messaging.
- Integrated the Anthropic Claude and Groq LLM APIs to build an AI assistant that gives personalized recommendations based on watch history.
- Shipped a real-time "watch party" feature bridged to the native layer, with synchronized auto-seek and an in-app chat layer.
- Built a D-pad/spatial navigation engine from scratch for Android TV; set up a Gradle-based APK build and release pipeline with Capacitor.
- Designed and implemented a legal-compliance layer that automatically detects licensed/copyrighted content categories and notifies and blocks accordingly; hardened Firestore/Storage security rules.

Producer Registry Form — Multi-Year Data Comparison Tool

Personal / Work Project

Technologies: Python, Tkinter, openpyxl

- Built a desktop application that processes multi-sheet Excel files of tobacco producer survey data and compares different years (2025 vs. 2026) side by side.
- Matched producers across years using national ID numbers, improving data consistency and data-entry speed.

Stationery E-Commerce Site

Technologies: PHP, MySQL, HTML, CSS, JavaScript

- Built a full-fledged e-commerce site end to end, gaining competence in web application development, database management, and UI design.

WORK EXPERIENCE

ECA – EMAS MAKİNA SANAYİ A.Ş. — Intern

June 2025 – July 2025

- Developed a Python-based Industrial IoT system for a boiler production line. By streaming real-time data collected from PLCs into Grafana dashboards, reduced fault-detection time from hours to seconds and improved operational efficiency.

Manisa Metropolitan Municipality — Intern

April 2025 – May 2025

- Observed firsthand how large-scale systems and user support function in the public sector.
- Automated manual processes with Robotic Process Automation (RPA), saving time and contributing to error-free task completion.

EDUCATION

Çukurova University — Computer Engineering

09/2019 – 01/2025 · Adana, Türkiye

Graduation Thesis: Modern Data Visualization Techniques: From Theory to Practice. My thesis focuses on modern data visualization techniques. I explored historical development, principles of visual perception, and practical applications using real-world datasets from Kaggle. I applied data cleaning, transformation, and visualization using Python, and addressed ethical and privacy concerns in data handling.

CERTIFICATIONS

- Artificial Intelligence Expertise Program — T.C. Ministry of Industry and Technology
- Data Science and AI Summer School — Coderspace
- Python for Machine Learning — Global AI Hub
- Akbank Python Bootcamp: New Generation Project Camp
- Akbank Machine Learning Bootcamp
- Object-Oriented Programming — C# (Elginkan Foundation)
- Object-Oriented Programming — Java (Elginkan Foundation)