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Computer engineering student building real products in AI, computer vision and data-driven systems. 23 projects across 7+ programming languages; my pet-care app Patiro is live on the App Store and Google Play.

01/ Featured Projects

Patiro

LIVE

MOBILE · PRODUCT

Multi-pet care and tracking app: vaccine/medication/food reminders, vet appointments and weight history, QR pet ID, family sharing. Published on both stores and used by real pet owners.

iOS · Android — App Store & Google Play

Satellite Ground Station & Digital Twin

DESKTOP · SIMULATION

Unity ground station that monitors drone/rover missions in real time: Mapbox maps, UDP/JSON telemetry with ACK/NACK validation, a mission engine with dynamic replanning, and full mission replay.

C# · Unity · Mapbox · UDP

3D Digital Twin Platform

WEB · COMPUTER VISION

Browser-based platform that builds 3D site models from drone photos: fast mosaic stitching via FFT phase correlation and ORB, a Three.js scene, live telemetry and an alarm panel.

Python · OpenCV · Three.js · WebSocket

AI Job Market Intelligence Platform

AI · DATA

End-to-end data science product for AI job postings: XGBoost salary regression with Optuna search, SHAP explainability, a Streamlit decision dashboard, MLflow tracking and Docker + GitHub Actions CI/CD.

Python · XGBoost · SHAP · MLflow · Docker

Duplicate Photo Hunter

DESKTOP · IMAGE PROCESSING

C++ desktop app that finds exact and visually similar photos: SHA-256 plus DCT perceptual hashing, a non-blocking background scan, a smart “keep” suggestion and delete-free safe backup.

C++17 · Qt 6 · OpenCV · CMake

PDF Toolbox

DESKTOP · PRODUCTIVITY

Desktop PDF suite for merging, splitting, text extraction and fast viewing; business logic separated from the UI in pytest-covered core modules, packaged for Windows with PyInstaller.

Python · CustomTkinter · pypdf · PyMuPDF

02/ Education

Hacettepe University

Computer Engineering

B.Sc. — in progress

03/ Skills

LANGUAGES

Python, C#, C++, Java, TypeScript, Kotlin, JavaScript, SQL

AI & DATA

OpenCV, XGBoost, scikit-learn, SHAP, Optuna, MLflow, Streamlit

WEB & MOBILE

React, Next.js, Three.js, Jetpack Compose, iOS & Android publishing

DESKTOP & SIMULATION

Unity, Qt 6, JavaFX, PySide6, Electron

TOOLS

Git & GitHub, Docker, GitHub Actions, CMake, Maven, pytest, SQLite

04/ By the Numbers

23 projects — all open on GitHub

7+ programming languages

2 stores, 1 published app