

ALP ÖZBAY

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EDUCATION

New York University — B.A. in Computer Science

Expected 2028

Relevant Coursework: Data Structures and Algorithms, Computer Systems Organization, Data Management and Analysis, Discrete Mathematics

EXPERIENCE

IT Intern — Edenred Türkiye

May 2025 – Jul 2025

- Developed a Python automation tool using pywinauto to extract bank balances from ERP software.
- Built PyQt5/Tkinter interface for scheduling and file operations.
- Implemented logging, error handling, and persistent settings for reliability.
- Delivered demo adopted by treasury team to reduce workload.
- Supported IT operations through troubleshooting and system maintenance.

Research Assistant — ML & Public Health Modeling (*Work in Progress*)

Nov 2025 – Present

- Contributing to a research project studying whether machine-learning models systematically underpredict diabetes and CHD risk in low-income U.S. ZIP codes.
- Building baseline predictive models to estimate diabetes and CHD prevalence from socioeconomic indicators, and evaluating accuracy across income-stratified ZIP-code groups.
- Supporting the development of metrics and visuals (bar charts, box plots) to quantify fairness disparities in public-health prediction systems.
- Aggregating and merging population-level datasets from CDC PLACES and the U.S. Census (income, poverty rate, insurance status, food insecurity, obesity).
- Analyzing performance gaps to determine whether AI tools exhibit systematic bias or underestimation of risk in disadvantaged communities.

PROJECTS

CrisisTriageAI — Real-Time Multimodal AI/ML Triage System

November 2025

- Designed end-to-end triage platform analyzing audio, text, and phone-call streams.
- Built FastAPI backend with Whisper transcription and BERT/DeBERTa classifiers.
- Implemented WebSocket streaming to a Next.js dashboard.
- Designed safety constraints and privacy boundaries.
- Created a reproducible ML training pipeline.
- GitHub: <https://github.com/ozbayalp/crisis-triage-lab>

Façade Risk Analyzer — AI Building Condition Platform

Mar 2025 – Jun 2025

- Built full-stack platform for façade image defect detection and risk scoring.
- Developed FastAPI backend with pluggable analyzers and PDF report generation.
- Implemented SQLite-backed jobs engine and replay tooling.
- Created Next.js frontend with dashboards and shareable reports.
- GitHub: <https://github.com/ozbayalp/Renovation-Twin-WebApp>

Lumen Search and Spaces — AI Research Platform Co-Developer

Nov 2024 – Feb 2025

- Integrated multi-model routing logic for autonomous research workflows.
- Worked with DeepSeek-R1, LLaMA-3.3, and O3-Mini models.
- Built pipelines for sourced answers and long-form reports.

Blaze — AI Shopping Copilot

Sep 2024 – Oct 2024

- Built shopping assistant extracting product data from user queries.
- Integrated LLaMA-based reasoning and preference memory layer.

TECHNICAL SKILLS AND INTERESTS

Programming Languages: Python, Java, TypeScript | **Frameworks/Libraries:** FastAPI, Next.js, React | **AI/ML:** PyTorch, Transformers, Whisper | **Tools:** Docker, Git, GitHub Actions, WebSockets, SQLite, Redis | **Interests:** Cooking, Combat Sports, Ultra-Endurance Competitions | **Certifications:** Leadership: Creating Public Value (Harvard, EdX), Neuroscience for Business (MIT, EdX) | **Languages:** Fluent in French, English and Turkish.