

OGULCAN ZORBA

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EDUCATION

B.Sc. Computer Engineering, Acibadem University 2022–2026
GPA: 3.72/4.00, Honor Student — graduated 3rd in the department and 3rd in the Faculty of Engineering and Natural Sciences.

WORK EXPERIENCE

Data Analyst BioSFM Lab, Acibadem University, Istanbul March 2025 - Present

- Analysed QCM biosensor impedance data in NumPy/pandas; benchmarked SVR, Random Forest and XGBoost with PCA for an IEEE paper.

Junior Developer PostAIPilot, Istanbul January 2026 - August 2026

- Researched and troubleshoot integration of generative video AI models (Veo 3.1, Sora) at an AI content creation startup.

Junior AI Developer Dedecta, Istanbul September 2025 - June 2026

- Fine-tuned Turkish NLP models for sarcasm detection and sentiment analysis; delivered as the graduation capstone.

Software Engineer Intern Acibadem Technology, Istanbul July 2025 - August 2025

- Learned .NET and SQL in the Clinical Management department; built a full-stack e-commerce application as the internship project.

IT Support Specialist GISAN Altinova Shipyard, Istanbul October 2022 - October 2023

IT Intern Acibadem Healthcare Group, Istanbul July 2024 - August 2024

PROJECTS

Quake-Fare-Relief Python, FastAPI, scikit-learn, SHAP, Playwright, React, Docker GitHub

- End-to-end pipeline: live AFAD earthquake feed, scheduled fare ingestion, Random Forest model with SHAP, 30 pytest tests, Docker Compose.

TUBITAK 2209-A Research Project Python, Machine Learning, Signal Processing January 2026 - Present

- Principal Investigator: Python pipeline for multi-harmonic QCM feature extraction and concentration regression, scored on R^2 , RMSE and MAE.

VitbixECommerce C#, .NET 9, Entity Framework Core, PostgreSQL, React GitHub

- ASP.NET Core Web API on Clean Architecture with JWT role-based auth, BCrypt hashing, coupon validation and a React admin panel.

PUBLICATIONS

IWIS 2025 Kernel-Based Analysis of Impedance Spectroscopy in a Quartz Crystal Microbalance Biosensor IEEE

SKILLS

AI / Data Science: Machine Learning, Natural Language Processing, Deep Learning, Signal Processing, Data Analysis

Languages: Python, C#, JavaScript, TypeScript, SQL, HTML/CSS

Frameworks: FastAPI, Django, .NET, React, TensorFlow, PyTorch, scikit-learn, Streamlit

Tools & Databases: Git, Docker, Redis, Celery, Playwright, Ollama, Hugging Face, SHAP, PostgreSQL, SQLite

Certifications: Machine Learning Specialization (Stanford Online & DeepLearning.AI), CS50 AI with Python (Harvard), CS50 Programming with Python (Harvard)

Spoken: Turkish (native), English (professional working proficiency), German (beginner)