Haifa Ghribi

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Summary

Final-year Computer Engineering student with hands-on ML and software development experience. Skilled in building ML pipelines, APIs, and scalable applications. Seeking entry-level Software or Data Engineering roles.

Education

Marmara University, B.Sc. in Computer Engineering   Sep 2022 – Jun 2026

- Full Scholarship Student
- *Coursework:* Data Structures, Algorithms, Database Systems, Software Engineering, OOP Design

Experience

Machine Learning Intern, SOCRadar – Istanbul, Türkiye   Jul 2025 – Aug 2025

- Built GitHub PR review bot using LLM, reducing manual code review time through automated quality analysis
- Developed secure Flask backend with SQLAlchemy ORM and ClickUp API for context-aware feedback
- Implemented LinkedIn fraud detection pipeline using n8n and NLP for scalable fake profile monitoring

Machine Learning Intern, VeNIT Lab – Istanbul, Türkiye   Jan 2025 – Feb 2025

- Built complete MLOps pipeline achieving 15% performance improvement through hyperparameter tuning
- Deployed real-time monitoring dashboard for model drift and accuracy tracking in production

Project Intern, Al Sharq Forum – Istanbul, Türkiye   Apr 2025 – Present

- Designed database schemas for Al Sharq Connect platform mapping 1,000+ global members
- Led data structuring and UX optimization with international team

Data Science Intern, Albayrak Group – Istanbul, Türkiye   Jul 2024 – Aug 2024

- Processed 500K+ records using Pandas, NumPy, and SQL for enterprise ML workflows
- Implemented K-Means and DBSCAN clustering models with optimized cluster selection

Projects

Tourkey Travel Planner   [GitHub]

- Built full-stack travel platform with React, Node.js, and Supabase using SDLC best practices
- Developed AI-powered chatbot with NLP for personalized travel recommendations

House Price Prediction   [GitHub]

- Built ML pipeline processing 80K+ records, achieved 20% RMSE reduction using XGBoost
- Deployed production Flask REST API with real-time prediction endpoints

2-TSP Problem Solver   [GitHub]

- Implemented optimized C algorithm with K-Means clustering, achieved 22% tour length reduction

Custom CPU Design   [GitHub]

- Designed 16-bit CPU architecture with 32 custom instructions using Logisim and Verilog HDL

Leadership

Yale Young African Scholars Mentor , Remote   Sep 2022 – Feb 2023

- Mentored 3+ students through US university applications with biweekly guidance on academic planning

Set Free Tech Workshops Founder, Sousse, Tunisia   Sep 2019 – Apr 2020

- Founded coding workshops across 5+ schools, promoting STEM education

Skills

Languages: Arabic (Native), French (Bilingual), English (Fluent), Turkish (Fluent)

Programming: Python, Java, C, JavaScript, MATLAB, C#

Data & ML: Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, NLP, Computer Vision

Databases: MySQL, SQLite, SQL Server, MongoDB, SQLAlchemy

Web Development: React, Angular, Node.js, Flask, REST API, HTML, CSS, Supabase

Tools: Git, GitHub Actions, CI/CD, Linux/Unix, Jupyter, LaTeX, n8n

Awards

- Government Scholarship for Computer Engineering, Türkiye - Top 5% of applicants (Aug 2021)
- African Leadership Academy Scholarship - Selected from 5,000+ global applicants (Sep 2020)