Ozgur Eryilmaz

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Summary

Software Developer and undergraduate student that specializing in Machine Learning, Quantitative Analysis. Experienced in building high-performance tools in Rust and Python, including MCP servers and CLI tools. Passionate about multi-agent orchestration and seeking challenges in backend systems.

Education

Bachelor of Science **- Management Information Systems** 2022 - Present
Izmir Democracy University Izmir, Turkey

Projects

polymarket-mcp June 2025
Built an MCP server and CLI tool for Polymarket prediction markets with real-time market data, search, and price tracking. *(Rust, Async/Tokio, MCP, JSON-RPC, Docker, GitHub Actions CI/CD)*

quantum-lean Sep 2024
Built a quantum computing simulation implementing the Deutsch-Jozsa algorithm in Lean 4. Applied formal verification to validate 100% correctness of quantum gate operations across 8 qubit configurations. *(Lean 4, Formal Verification, Quantum Computing, Mathematical Proofs)*

fromthetransistor Apr 2024
Created low-level computing project covering 12 hardware-software interface modules from transistors to operating systems. *(Python, Verilog, Computer Architecture, Digital Logic Design)*

Work Experience

Fab Technologies Inc Delaware, NY (Remote)
Spark Fellow Jan 2026 - Feb 2026
- Participating in 4-week intensive program focused on AI product development and startup methodologies
- Collaborating with product team on strategy, user research, and MVP development for AI-powered solutions

TNC Group Istanbul, Turkey (Remote)
IT Intern Nov 2025 - Jan 2026
- Completed applied trainings in Excel, AutoCAD, Adobe Photoshop and Python during internship program
- Delivered a successful IT project and actively contributed with creative, design-oriented solutions

Skills

Languages: Rust, Python, R, SQL, Lean 4, English (Professional), Turkish (Native)
Technologies: Docker, Git, GitHub Actions, CI/CD, Model Context Protocol (MCP), REST APIs, Async Programming, CLI Development, Linux/Unix, MS Office Apps
Domains: Machine Learning, Quantitative Analysis, Cryptography, Multi-Agent Systems, Distributed Systems

Certifications

Model Context Protocol: Advanced Topics Oct 2025
Anthropic *Credential ID: 3w3ro23g7acs*

Introduction to Model Context Protocol Sep 2025
Anthropic *Credential ID: 3rk9ug8y6ims*

Cryptography I May 2025
Stanford Online *Credential ID: UUD219STG3O6*

Supervised Machine Learning: Regression and Classification Dec 2023
Stanford Online *Credential ID: 3NSWQWUM5X35*