Mehmet Emre Kayacan

Konya, Turkey | Open to remote or on-site opportunities

+90 545 367 68 48 ✉ emremehmet32@hotmail.com in LinkedIn GitHub Portfolio

PROFİLE

4th-year Computer Engineering student focused on Python-based backend development and modern web technologies, with hands-on experience in networking, virtualization, and real-world system design.

PROFESSİONAL EXPERİENCE

Front-End Development Intern
Aug 2024 – Sep 2024

Anadolu Birlik Holding, IT Dept.

- Built an Invoice Management Application using React, JavaScript, HTML, and CSS
- Transformed Figma designs into responsive, production-ready UI
- Improved data handling by implementing client-side persistence with localStorage

Network & System Intern
Aug 2025

Süleyman Demirel University, IT Dept.

- Configured VLANs and managed Linux-based virtual machines
- Designed firewall rules using OPNsense to improve network security
- Supported real-world troubleshooting in an academic IT environment

Global Volunteer (AIESEC)
Sep 2025 – Oct 2025

SDG Quality Education Program | Galati, Romania

- Led English workshops for middle school students on SDG & cultural topics
- Designed (Canva) & presented educational materials, honing public speaking skills

PROJECTS

CampusPlus
Python, FastAPI, PostgreSQL, React, Docker
- Developed a full-stack platform with an async FastAPI backend and React frontend.
- Integrated search and automation features using vector databases (FAISS) and LLM-based tools.

Hybrid TCP/UDP Network Chat Application
Python
- Designed a custom protocol over TCP/UDP for reliable messaging
- Implemented peer discovery and basic reliability mechanisms

MIPS Assembly Simulator
Python, Tkinter
- Developed a MIPS assembly IDE with graphical user interface
- Featured code editor and real-time memory/register views

8-Bit ALU Circuit Design
Tinkercad, Verilog
- Designed and simulated an 8-bit ALU circuit for addition/subtraction operations
- Implemented digital logic design using Verilog HDL

SKİLLS

Programming & Backend
Python (3.11+), FastAPI, Async APIs, SQLAlchemy, Alembic, Assembly (MIPS)

Frontend
JavaScript (ES6+), React, TypeScript

Web Technologies
HTML5, CSS3, Responsive Design, Tailwind CSS

AI & Automation Tools
Prompt Engineering, LLM Integration (LangChain, Gemini), Embeddings & Vector Search (FAISS), AI-assisted coding & testing

DevOps & Tooling
Docker, Docker Compose, GitHub Actions (CI), Git & GitHub, AI-assisted debugging and refactoring

Networking & Systems
TCP/IP, Client-Server Architecture, Basic Network Security, VLANs, Firewall (OPNsense), Virtualization (VirtualBox), Linux System

EDUCATİON

B.Sc. Computer Engineering
Konya Food and Agriculture University
Konya, Turkey
Expected: June 2026
GPA: 3.23 / 4.00
100% Academic Scholarship | Instruction in English

LANGUAGES

Turkish	Native
English	Upper-Intermediate

INTERESTS

Computer Networks, System Design, Software Engineering Practices, Open-Source Projects

REFERENCES

References available upon request