

# Mehmet Emre Kayacan

📍 Konya, Turkey | Open to relocation in Europe Available for Erasmus Internship | Summer 2026

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## PROFILE

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. Actively seeking an Erasmus Internship to gain international industry experience in software and IT teams.

## PROFESSIONAL EXPERIENCE

**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 AI features using vector databases (FAISS) and LLM workflows with LangChain, focusing on practical application and learning-by-building.

**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

## SKILLS

### 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-Assisted Development

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 development and debugging

### Networking & Systems

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

## EDUCATION

### 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, AI-Assisted Software Development, Open-Source Projects, International Collaboration

## REFERENCES

References available upon request