Yunus Emre Gültepe

Istanbul, Turkey
yemregultepe@gmail.com
linkedin.com/in/yunus-emre-gültepe
github.com/Mordris
yunusemregultepe.netlify.app

Summary

Results-oriented final-year Software Engineering student (Sakarya University, 3.37/4.0 GPA) with international study experience (Erasmus+ at AGH University, Poland). Proven ability in full-stack web development, specializing in React.js, Node.js/Express, and Python (Flask). Demonstrated skills through diverse projects involving AI integration (Google Gemini, Mistral-7B), 3D graphics (Three.js), networking (Zeroconf), and applying DevOps principles. Passionate about clean code and best practices, seeking a challenging Software Engineer role or internship in Europe to contribute technical skills and grow further.

Education

- **Sakarya University** — Sakarya, Turkey
  Bachelor of Science in Software Engineering — Aug 2020 – Expected Jun 2025
  GPA: 3.37 / 4.00
  (Includes 1 year of English Preparatory Class)
- **AGH University of Science and Technology** — Kraków, Poland
  Erasmus+ Student Exchange Program (Computer Science) — Sep 2024 – Feb 2025

Skills

Programming Languages:	Python, JavaScript (ES6+), SQL
Web Technologies:	React.js, Node.js, Express.js, Flask, RESTful APIs, HTML5, CSS3, Mantine UI, Three.js, WebGL, Sockets
Databases:	MongoDB, PostgreSQL
AI/ML:	(Google Gemini/ OpenAI) API, Mistral-7B (Basic Integration), FAISS (Vector Search), NLP Concepts
Tools & Platforms:	Git, Docker, OpenCV (cv2), Linux, Netlify, Zeroconf/Avahi, Vite, Jenkins (Basic)
Concepts:	Object-Oriented Programming, Data Structures, Algorithms, Networking Principles, DevOps Principles, Cloud Computing Concepts (AWS Fundamentals), Clean Code Practices, Digital Image Processing Concepts

Projects

AI Face Recognition Attendance System `[Private Repository]`

- Developed a comprehensive backend for an automated attendance system using FastAPI, PostgreSQL, and Docker, featuring real-time facial recognition.
- Implemented student enrollment with image upload, MTCNN face detection, Facenet embedding generation (via DeepFace), and FAISS for efficient similarity search.
- Designed background task processing for live attendance, handling image capture data, liveness checks (placeholder), and preventing duplicate attendance logs.
- Established database schema with SQLAlchemy, managed migrations with Alembic, and ensured containerized deployment with Docker Compose.
- **Technologies:** Python, FastAPI, PostgreSQL, SQLAlchemy, Alembic, Docker, Docker Compose, RESTful APIs, Pydantic, DeepFace (Facenet), MTCNN, FAISS, OpenCV, TensorFlow, NumPy, Git.

LanDrop - Local Network File Transfer [GitHub]

- Created a cross-platform (Linux/Windows) desktop tool for direct file, folder, and text transfer using Python, Tkinter, and sockets.
- Implemented automatic device discovery via Zeroconf (Avahi/Bonjour), transfer progress display, confirmation prompts, and optional self-signed TLS encryption.
- **Technologies:** Python, Tkinter, Sockets, Zeroconf, Threading, Pillow, Git.

AI Sakarya University Chatbot [GitHub]

- Developed a full-stack chatbot (React frontend, FastAPI backend) to answer student queries using university documents.
- Implemented two RAG pipelines: one using local Mistral-7B (Ollama) and another advanced version using OpenAI (GPT-3.5/4) with multilingual capabilities.
- Integrated FAISS for vector search, implemented Cross-Encoder re-ranking, conversational memory, date awareness, and prompt engineering for context-aware, accurate responses in Turkish/English.
- **Technologies:** React, FastAPI, Python, JavaScript, FAISS, Sentence Transformers, OpenAI API, Ollama (Mistral-7B API), REST API, Git, RAG.

WhatCanICook? - AI Recipe Suggester [GitHub]

- Developed a full-stack web app suggesting recipes from user ingredients using Google Gemini API, featuring tag-based input and dynamic recipe cards with Unsplash images.
- Implemented a Flask backend with RESTful APIs, LRU caching to minimize API calls, and input validation; built a responsive React frontend with Mantine UI and notifications.
- **Technologies:** React, Flask, Python, JavaScript, Google Gemini API, Unsplash API, Mantine UI, CSS, HTML, Git.

Interactive 3D Solar System [GitHub]

- Built an interactive 3D solar system visualization using Three.js, rendering planets, dwarf planets, and the Sun with orbital paths and relative rotational speeds.
- Implemented camera controls (orbit, zoom, pan), click-to-select functionality with camera focusing/following, and an information panel displaying celestial body data.
- **Technologies:** JavaScript, Three.js, HTML5, CSS3, WebGL, Git.

Licenses & Certifications

- AWS Academy Cloud Architecting (60 hours) - AWS Academy (Jan 2025)
- Raconf 25 Web Application Security - SAUSIBER (Apr 2025)
- DevOps Solutions (Jenkins) - BTK Akademi (Jan 2024)
- Document Types and Data Formats - BTK Akademi (Jan 2024)
- Web Development with HTML5 - BTK Akademi (Jan 2024)
- The Complete JavaScript Course 2023: From Zero to Expert! - Udemy (Oct 2023)
- The Complete 2023 Web Developer Bootcamp - Udemy (Jul 2023)

Honors & Awards

- Certificate of High Honor - Sakarya University (Fall 2022-2023)
- Certificate of Honor - Sakarya University (Spring 2022-2023)
- Certificate of Honor - Sakarya University (Fall 2021-2022)

Languages

- **Turkish:** Native
- **English:** Proficient (B2/C1 Equivalent; Erasmus+ Study Abroad Experience)
- **German:** Basic Knowledge (Just started - Actively Learning)