

MEHMET SAID HUSEYINOGLU

Software Engineer

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About

Adaptable Software Engineer with a strong foundation in **AI, Data Science, and Backend technologies**, further refined during an **Erasmus+** exchange focused on Neural Networks. Drawing on my background as a **Team Lead and Scrum Master**, I have successfully managed agile teams to deliver scalable **LLM-based SaaS solutions**, combining technical depth with effective project execution.

Currently, I execute high-tech R&D within **TÜBİTAK 1001 & 2209-A** projects and lead the computer vision development team for Teknofest and international competitions. Dedicated to **bridging the gap between theoretical research and scalable software applications**, I am the organizer of **Firat University's first Datathon** and an alumnus of **OUA** and **Yapay Zeka ve Teknoloji Akademisi**, currently advancing as a scholarship recipient in **Veri Analizi Okulu** and **Yapay Zeka Uzmanlık Programı**.

Education

Firat University (09/2022 – Present)

Elazığ, Türkiye

- Bachelor of Science in Software Engineering, GPA: 3,06

Czestochowa University of Technology (10/2023 – 02/2024)

Czestochowa, Polonya

- Erasmus+ Student Exchange Program

Experience

Team Leader (AI & LLM Projects)

GLOBALPROJOB LTD – Manchester, England | Part-time, Remote (June 2025 – January 2026)

- Led a technical team of 11 engineers in developing AI-powered SaaS products, managing **sprint planning** and Agile workflows to ensure timely delivery.
- Contributed to backend architecture and API integrations, utilizing **Docker** for containerization and optimizing AI pipelines for scalability.
- Orchestrated the development of autonomous AI Agents and **LLM integrations**, aligning system architecture with product vision for enterprise and home automation.

Computer Vision & Deep Learning Intern

NeviTech – Istanbul, Türkiye | Remote (July 2025 – September 2025)

- Developed a real-time Turkish Sign Language translation system utilizing **Transformer-based** Deep Learning architectures for high-performance gesture recognition.
- Engineered a comprehensive data pipeline, implementing **Selenium web scrapers** and utilizing benchmark datasets like **Ankara University AULTS** and **Boğaziçi BosphorusSign** for rigorous validation.
- Integrated **LLM-based models** with **RAG** and custom prompt engineering to interpret transcriptions, ensuring natural and context-aware translations.
- Extended the project scope as a Senior Capstone**, focusing on advanced model optimization and academic benchmarking with state-of-the-art datasets.

Volunteering & Leadership Experience

R&D Committee Leader – Teknofest Club, Firat University (2024- Present)

Elazığ, Türkiye

Core Member – Google Developer Student Clubs (GDSC) (2023 - 2024)

Elazığ, Türkiye

Co-Founder & Core Team Member | Aztech Games, Firat University (2022 - 2023)

Elazığ, Türkiye

Projects

Smart Doc Insight – AI-Powered Document Analysis Platform

- Built a full-stack document analysis system allowing users to query PDFs via **LLM integration** (OpenAI, Gemini, Ollama) and **RAG** workflows.
- Developed a secure backend architecture with **Flask** and **MongoDB**, handling role-based access control and dynamic file processing.
- Engineered a hybrid query pipeline combining vector search with **Regex** to ensure precise data extraction from unstructured documents.
- **Tech Stack:** Python, Flask, MongoDB, REST APIs, RAG - LangChain, Regex , Ollama, LmStudio, JavaScript.

CODA – Transformer-Based Turkish Sign Language Recognition

- Developed a **Transformer-based** deep learning architecture for real-time sign language translation, optimizing gesture recognition performance using **PyTorch** and **MediaPipe**.
- Engineered a robust data pipeline using **Selenium web scrapers** to curate custom training data, augmented with academic benchmarks (**Ankara University AULTS**, **BosphorusSign**) for rigorous validation.
- Integrated **LLM-based post-processing** with **RAG** and **Regex** workflows to convert raw gloss outputs into natural, context-aware Turkish sentences.
- **Tech Stack:** Python, PyTorch, Transformers, CNN, LSTM, MediaPipe, Selenium, RAG, LLM Integration, OpenCV.

TÜBİTAK 2209-A – AI-Powered Skin Cancer Detection

- **Architected the "Ultra-Hybrid Attention Network,"** a novel ensemble model fusing **EfficientNet-B4**, **Swin Transformer**, and **ConvNeXt** via a dynamic **Attention Gate** mechanism to capture both local textures and global contexts.
- Trained on **81,722 dermoscopic images** using a **Hybrid Loss** strategy (Focal Loss + Label Smoothing) and Weighted Sampling, achieving **0.968 AUC** and minimizing calibration error (**0.024 ECE**) for clinical reliability.
- Developed a full-stack **Clinical Decision Support System** using **Flask** and **Clean Architecture**, integrating **RAG-based LLMs** (GPT-4, Gemini) to generate context-aware medical explanations and risk assessments.
- **Tech Stack:** Python, PyTorch, Transformers, Flask, RAG, Docker, Neo4j, Clean Architecture.

Operion – Next-Gen Commercial Automation System with AI

- Architected a comprehensive ERP/CRM system using **.NET 10** and **C#**, integrating **Google Gemini AI** for intelligent business insights.
- Implemented **RAG (Retrieval-Augmented Generation)** architecture to enable smart querying of stock, invoice, and customer data using natural language.
- Designed a robust backend with **Entity Framework Core** and **SQLite**, ensuring high performance in data transaction and management.
- **Tech Stack:** C# .NET 10, Google Gemini API, RAG, Entity Framework Core, SQLite, Commercial Automation Architecture.

Certificates

Google Advanced Data Analytics Professional Certificate | Google Coursera

Advanced Level: Generative AI Training for Developers | Google Cloud Skills

Application Development with Flutter | Oyun ve Uygulama Akademisi

Google Proje Yönetimi Professional Certificate | Google

Huawei Cloud Developer: HCCDA-AI , HCCDA-Tech Essentials | Huawei

Graduation Certificate | Yapay Zeka ve Teknoloji Akademisi

Other Information

English: B2

Driver's License: Class B

References

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