MUHAMMED NOUR MAAMA

AI Engineer | Full-Stack Developer | Agentic AI

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LinkedIn | GitHub | Portfolio

PROFESSIONAL SUMMARY

Innovative Software Engineering student specializing in **Artificial Intelligence, Computer Vision, and Agentic AI Systems**. **Erasmus+ Grant Holder:** Secured full funding for a 6-month internship (Spring 2025-2026), available for immediate relocation with covered living expenses. Currently focused on building autonomous agent workflows and deploying Deep Learning models on edge devices. Winner of an international problem-solving competition, demonstrating exceptional algorithmic capabilities

SKILLS

- **AI & Agentic Systems:** Agentic AI Workflows, Large Language Models (LLMs), TensorFlow, Keras, OpenCV, U-Net, Computer Vision, Neural Networks.
- **Languages:** Python, C#, C/C++, SQL, Dart.
- **Backend Development:** ASP.NET Core (Web API, MVC), RESTful Services, Dependency Injection, Entity Framework Core.
- **Mobile & Frontend:** Flutter (Cross-platform), Blazor, HTML, CSS.
- **Infrastructure & Tools:** Raspberry Pi (Edge AI), Docker, Git/GitHub, PostgreSQL, Firebase.

HONORS & AWARDS

1st Place - International Problem Solving Competition

- **Winner** of the joint hackathon between **Hasan Kalyoncu University (Turkey)** and Malaysian University.
- Led the team to solve complex algorithmic challenges under strict time constraints, achieving the highest score against international peers.

PROJECTS

AI-Based Vein Segmentation & Monitoring System

- *Tech Stack: Python, U-Net (Deep Learning), Raspberry Pi, Flutter, Firebase.*
- Developed a biomedical imaging system using the **U-Net architecture** to segment human vein structures from raw images with high precision.
- **Edge Deployment:** Optimized and deployed the model on **Raspberry Pi** for real-time, offline processing.
- Built a **Flutter** mobile application to visualize segmentation results and sync health data via Firebase.

Real-Time Car Detection & Tracking System

- *Tech Stack: Python, OpenCV, Computer Vision.*
- Engineered a vision-based traffic monitoring solution capable of detecting and tracking vehicles in dynamic video streams.
- Implemented object detection algorithms using **OpenCV** to identify vehicle types and track movement trajectories in real-time.

Dental Clinic Management System (Full-Stack)

- *Tech Stack: ASP.NET Core Web API, Flutter, PostgreSQL, Twilio.*
- Architected a complete clinic management ecosystem featuring a secure **RESTful API** backend.
- Integrated **Twilio API** to automate SMS appointment reminders for patients.
- Designed a responsive mobile interface for dentists to manage patient records and schedules.

CardHalab - Contactless Smart Payment (IoT)

- *Tech Stack: C++, ESP32, PN532 NFC, ASP.NET Core.*
- Prototyped a smart payment device using **ESP32** and **NFC modules**, connected to a .NET Core backend for secure, real-time balance deductions.

EDUCATION

Hasan Kalyoncu University | Gaziantep, Turkey

- **B.Sc. in Software Engineering |** Expected Graduation: 2026
- *Relevant Coursework:* Data Structures & Algorithms, Database Systems, Operating Systems, Computer Networks.

CERTIFICATIONS

- **Machine Learning Specialization** – Coursera (Andrew Ng / Stanford)
- **Neural Networks and Deep Learning** – Coursera (DeepLearning.AI)
- **Python for Data Science and AI** – Coursera (IBM)
- **ASP.NET Core MVC: Cross-Platform Development** – Packt
- **SQL Certification** – Udemy

LANGUAGES

Arabic: Native

English: C1

Turkish: Advanced

Open to digital projects (web development, data analytics, AI/ML). References and project demos available upon request.