

Muhammed Murat Yanaşoğlu

Software Engineer | Artificial Intelligence Engineer

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[Portfolio](#) | [LinkedIn](#) | [GitHub](#) | [ORCID](#)



PROFESSIONAL PROFILE

Software and AI engineer with a BSc in Software Engineering and an MSc in Artificial Intelligence Engineering from Near East University. Graduated top of the master's department in June 2026 with a 3.71/4.00 GPA and High Honor distinction. Currently an IT Specialist at Ercan Airport, with experience in AI engineering, RAG and LLM applications, full-stack development, and research in computer vision and cooperative UAV systems.

EDUCATION

MSc, Artificial Intelligence Engineering

Near East University | February 2025 - June 2026 | 100% English instruction

- Graduated first in the department with a 3.71/4.00 GPA and High Honor distinction.
- High Honor: Spring 2024-2025 (3.50 GPA) and Fall 2025-2026 (4.00 GPA).
- Thesis: Design and Evaluation of HiveSentinel AI: A Multi-Platform System for Bee Pest Monitoring.

BSc, Software Engineering

Near East University | September 2021 - January 2025 | 100% English instruction

- Completed the four-year program in three years and the English preparatory program in half a semester.
- High Honor in three academic semesters; founded and presided over the university AI Club.

PROFESSIONAL EXPERIENCE

IT Specialist

Ercan Airport (T&T Airport Operations) | Nicosia, TRNC | June 2026 - Present | On-site

- Manage IT infrastructure, network and server systems, user support, and operational continuity.
- Support cybersecurity policy compliance, backup, disaster recovery, and airport IT improvements.

AI Engineer

Porttus AI | Seattle, United States | June 2025 - February 2026 | Remote

- Built AI-powered automations, RAG and fine-tuned chatbots, and voice assistant systems.
- Worked on model training and customization, documentation, Docker, CI/CD, and OCR projects.

AI Engineer / Full-Stack Web Developer

Trylon AI | Denver, United States | February 2025 - June 2025 | Remote

- Developed LLM-based applications, prompt engineering techniques, and RAG architectures.
- Built the company documentation website and added AI-assisted features.

Software Engineer Intern

Near East University AI & Robotics Institute | Nicosia, TRNC | June 2024 - September 2024 | On-site

- Contributed code and data analysis to academic research using Python and Jupyter Notebook.
- Visualized experiments and prepared research documentation and technical presentations.

Full-Stack Web Developer

Nüve Core Software and Digital Agency | Ankara, Türkiye | September 2023 - March 2024 | Remote

- Built web applications and responsive interfaces with React, Next.js, TypeScript, and Tailwind CSS.
- Worked on reusable UI components and performance improvements using SSR and ISR.

Software Engineering Intern

Nüve Core Software and Digital Agency | Ankara, Türkiye | July 2023 - September 2023 | On-site

- Supported Agile/Scrum workflows, project documentation, frontend development, API integrations, and unit tests.

ACADEMIC WORKS

Bioinspired Swarm Intelligence Algorithms for Cooperative UAV Systems

Taylor & Francis / CRC Press | Sustainable UAV Ecosystems | Book chapter, 2026 | DOI: 10.1201/9781003731580-7

[View chapter](#)

Design and Evaluation of HiveSentinel AI: A Multi-Platform System for Bee Pest Monitoring

Near East University | MSc thesis, June 2026

[Interactive thesis and defense presentation](#)

Water and Energy Sustainability in Traditional and AI-Driven Data Centers: Environmental, Economic, and Policy Implications

IGI Global | Book chapter listed for 2027

[View chapter listing](#)

SiteScribe: An Evidence-Centric Multi-Tenant Change Order Intelligence Platform for Construction Projects

Available on ResearchGate

[View work](#)

Next Generation AI-Blockchain Enabled Smart City: Conceptual Framework, Key Technologies, and Society 5.0 Perspectives

Available on ResearchGate

[View work](#)

Concepts and Classifications of Natural Hazards and Disasters

Available on ResearchGate

[View work](#)

SELECTED PROJECTS

SiteScribe

Multi-tenant construction change-order platform with evidence tracking, RBAC, approvals, and PDF/ZIP export.

[GitHub](#) | [Paper](#)

AI-Powered OCR for Ancient Languages

Django, Tesseract, and Gemini application for extraction, translation, summaries, and research exports.

[GitHub](#)

AI-Powered Trading Automation

Private market-analysis automation for crypto, equities, and SEC Form 4 signals and reports.

RegLens

RegTech platform for regulatory change monitoring, control mapping, evidence suggestions, and audit workflows.

[GitHub](#)

Object Name Tutor

Offline bilingual vocabulary learning through ROI-controlled YOLOv8n and MobileNetV2 object recognition.

[GitHub](#)

Prof. Dux

AI artwork analysis, multi-model comparison, export, and automated blog generation.

[Live site](#)

Happy Service

Private marketplace for service seekers and providers in Northern Cyprus and Türkiye.

Student Office Hours Reservation

Separate student and faculty portals for availability, appointments, approvals, and messaging.

[GitHub](#)

Screen Guardian

Desktop screen-time monitoring, limits, and analytics application.

[Download](#)

SELECTED PROJECTS (CONTINUED)

Happy Assistant

Private multilingual real-time hotel voice assistant with Gemini, Mistral, and an admin dashboard.

U.S. Immigration Petition AI Platform

Private multi-LLM workflow for evidence management, drafting, revisions, and petition packages.

AI-Powered Personal Websites

Public examples of AI-assisted personal sites.

mervekirmiziyuz.com | drsergazy.com

TECHNICAL SKILLS

Programming and data: Python, TypeScript, SQL, PHP; Pandas, NumPy, Matplotlib
AI and automation: RAG, LLM applications, prompt engineering, computer vision, OCR, n8n, Langflow
Web and databases: React, Next.js, Django, HTML, CSS, Tailwind CSS, PostgreSQL, MySQL
Infrastructure and tools: Linux, Docker, CI/CD, Git, REST APIs, network and server administration

CERTIFICATIONS AND HONORS

IBM

Python for Data Science, AI & Development	Developing AI Applications with Python and Flask
Generative AI: Elevate Your Software Development Career	Django Application Development with SQL and Databases
Developing Front-End Apps with React	Developing Back-End Apps with Node.js and Express
Full-Stack Application Development Capstone Project	Full-Stack Software Developer Assessment
Application Development using Microservices and Serverless	Getting Started with Git and GitHub
Introduction to Cloud Computing	Introduction to Containers with Docker, Kubernetes & OpenShift
Introduction to Web Development with HTML, CSS, and JavaScript	Software Developer Career Guide and Interview Preparation

Other

Cybersecurity Lecturer Bootcamp Participation - CodeCrafters	Internship High Success - Near East University AI & Robotics Institute
Entrepreneurship Certificate of Achievement - European Union	

High Honor

Fall 2024-2025 (3.93 GPA)	Spring 2023-2024 (3.76 GPA)
Fall 2022-2023 (3.81 GPA)	

LANGUAGES AND LEADERSHIP

Turkish (native), English (advanced), Modern Standard Arabic (intermediate), French (beginner). Founder and President of the Near East University AI Club; member of CodeCrafters; former Software Engineering Department representative.