



Muhammed Murat Yanaşoğlu

Software Engineer | AI Engineer

Address: Nicosia, TRNC | Nationality: TRNC, Republic of Türkiye

Languages: English (Advanced), Turkish (Native), French (Beginner), Fusha Arabic (Beginner)

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EDUCATION

Artificial Intelligence Engineering | Master's Degree | 100% English Instruction

Near East University | Nicosia, TRNC

- Participated in various academic research papers and projects.
- In Spring 2024-2025 (GPA 3.50) and Fall 2025-2026 (GPA 4.00), I was a “High Honor” student.
- See: <https://orcid.org/0009-0007-4722-8079> (Note: My papers pending publication could not be included.)

Software Engineering | Bachelor's Degree | 100% English Instruction

Near East University | Nicosia, TRNC

- I completed the 4-year engineering bachelor's program in 3 years. I completed the 1-year English preparatory program in one semester.
- In Fall 2024-2025 (GPA 3.93), Spring 2023-2024 (GPA 3.76), and Fall 2022-2023 (GPA 3.81), I was a “High Honor” student.
- I founded the Near East University Artificial Intelligence Club and served as its president.

PROFESSIONAL EXPERIENCE

AI Engineer

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

- Developed automation systems integrated with AI technologies.
- Developed Python packages for internal company use.
- Prepared documentation, analysis, and interpretation using trained AI models.
- Developed voice assistant systems using RAG (Retrieval-Augmented Generation) and fine-tuned AI chatbots.
- Worked on the training and customization of AI models.

- Developed various projects using technologies such as Docker, CI/CD pipelines, and OCR (Optical Character Recognition).

AI Engineer / Front-End Web Developer

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

- Worked on optimizing and personalizing the AI services the company offers to customers.
- Worked in the company's web development department. I delivered frontend and backend solutions for website projects and helped integrate AI technologies.
- Also worked on the company's presentations, documentation, and planning tasks.

Software Engineer - Intern

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

- Contributed to software development and research projects at the AI & Robotics Institute.
- Took responsibility for code development and data analysis in academic research projects.
- Performed data analysis and visualization for research experiments using Python (matplotlib, pandas). Documented research results and prepared technical presentations for academic team members.

Front-End Web Developer

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

- Worked full-time for 6 months as a front-end developer using React.js, Next.js, TypeScript, and CSS libraries, focusing on frontend web development, user interface design, and implementation. I also carried out performance optimizations using Next.js Server-Side Rendering (SSR) and Incremental Static Regeneration (ISR).
- Designed accessible, modern interfaces aligned with responsive design principles using the Tailwind CSS framework.

Software Engineer - Intern

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

- Learned software development processes and teamwork through Agile/Scrum methodology, and gained experience in preparing project documentation and updating user documentation.
- Gained foundational experience in frontend technologies (HTML, CSS, TypeScript, React, Next.js). Supported third-party API integrations and unit test writing.

PROJECTS

1. SiteScribe - AI-Powered Construction Change Order Management Platform

SiteScribe is designed to collect scattered evidence in construction projects - such as field logs, RFIs, plan revisions, and images - on a single platform and convert them into traceable, audit-ready change order workflows. Using Next.js 14, TypeScript, Prisma, and MySQL, I developed a multi-tenant platform that centralizes field logs, RFIs, plan revisions, and photographs; detects signals to generate events; and produces evidence-based change order drafts. I also managed an end-to-end enterprise workflow with role-based access control (RBAC), a notification system, comment/approval flows, PDF+ZIP export, and optional Mistral AI integration.

[**(Public) GitHub Repository:** <https://github.com/muratyanasoglu/SiteScribe.git>

Academic Paper: <https://zenodo.org/records/19103585>]

2. AI-Powered OCR Project for Ancient Languages: Ancient Greek, Fraktur (Old German), Classical Latin

By developing a Django-based web application, I extracted Latin, Ancient Greek, and Fraktur texts from stone inscriptions and historical printed materials using Tesseract OCR and script-specific image preprocessing. With Google Gemini integration, I produced English translation, summarization, and historical context, and provided export in TXT/JSON/Word/PDF formats together with REST API support for research use.

[Public: <https://github.com/muratyanasoglu/AI-Powered-OCR-Project-for-Ancient-Languages-Ancient-Greek-Fraktur-Old-German-Classical-Latin.git>]

3. AI-Powered Trading Automation (Crypto, U.S. SEC Form 4 Insider Trading, Stocks)

I developed an AI-driven trading automation system that analyzes crypto and stock markets - including U.S. SEC Form 4 insider trading records - to detect buy/sell signals. The platform also generates structured table- and chart-based reports to summarize transaction patterns and highlight notable activity for faster decision-making. [Private]

4. RegLens - Enterprise RegTech Compliance and Audit Automation Platform

RegLens is designed to automatically monitor and analyze changes in regulatory sources, transform them into internal controls, tasks, and audit evidence, and make compliance processes manageable from a single platform. Using Next.js, TypeScript, Prisma, and MySQL, I developed an end-to-end RegTech platform that tracks regulatory sources, detects changes, maps them to controls, and generates audit evidence. With AI-supported normalization/matching/evidence recommendation flows, task and audit-pack management, role-based access control (RBAC), security logs, rate limiting, and PWA support, I managed enterprise compliance processes from one dashboard.

[Public: <https://github.com/muratyanasoglu/RegLens.git>]

5. Object Name Tutor: Bilingual (English-Turkish) ROI-Controlled Object Recognition System for Daily Vocabulary Learning with Computer Vision (CNN Project)

This is a desktop-based educational application focused on bilingual vocabulary learning through real-time object recognition. It includes a two-stage detector-classifier architecture (YOLOv8n + MobileNetV2) with an ROI-controlled Focus Mode, delivers 30+ FPS performance on CPU only, works fully offline, and preserves privacy.

[Public: <https://github.com/muratyanasoglu/Object-Name-Tutor-An-Offline-Bilingual-ROI-Controlled-Object-Recognition-System-.git>]

6. Near East University Prof. Dux: AI-Powered Artwork Analysis, LLM Model Comparison, and Blog Generation Web Platform

Artworks can be analyzed in detail with selected AI models or examined comparatively with multiple models. Analysis results, model metrics, and accuracy scores can be obtained and downloaded in HTML and JSON formats. In addition, blog articles can be generated automatically in the selected tone and length. Camera support is also available.

[Public: <https://profdux-artwork-analysis-app.vercel.app/>]

7. Happy Service - Service Marketplace Platform for the TRNC and Türkiye

This is a web-based marketplace platform developed to securely, quickly, and transparently connect service seekers with service providers in the TRNC and Türkiye. In the project, I built a scalable backend architecture using Next.js 14 (App Router), TypeScript, Prisma ORM, and MySQL; and developed end-to-end modules for authentication/session management with NextAuth (Credentials + Google OAuth), role-based authorization (customer, provider, admin), real-time messaging, notification infrastructure, profile/offer processes, and an admin panel (user-service approval, location management, statistics, audit log). On the UI side, I used React and Tailwind CSS/Bootstrap; on the reporting side, Chart.js; and I also delivered an in-platform assistant experience with optional Mistral AI integration. [Private]

8. Near East University Student Office Hours Reservation Website

It includes two separate portals for students and academics. Students can view availability and send appointment requests; academics can manage requests, approve or reject them, and communicate through messaging.

[Public: <https://github.com/muratyanasoglu/student-office-hour-websites>]

9. Screen Guardian - Desktop Screen Time Monitoring, Control, and Locking Application

A comprehensive desktop application that monitors screen time, controls usage, and applies security locks with advanced tracking features. It tracks usage patterns, enforces time limits, and provides detailed analytics for better digital well-being management.

[Public: https://drive.google.com/file/u/1/d/103E_RuJWs-q-vao7GoemU-bDHnrdbthG/view?usp=drive_link]

10. “Happy Assistant” AI-Powered Real-Time Hotel Assistant

An AI-powered real-time voice assistant platform developed for hotel guests. It provides multilingual speech recognition and text-to-speech through the Web Speech API. It supports dynamic conversation flows through Google Gemini and Mistral AI integration. With the Admin Dashboard, administrators can access and update everything. It was developed with Next.js, React, TypeScript, Prisma ORM, and MySQL. [Private]

11. End-to-End AI Platform for U.S. Immigration Petition Preparation (EB-1A & EB-2 NIW)

A full lifecycle AI platform that automates the entire process from user data collection, evidence management, and draft generation to revision and the final petition package. It provides content generation and quality control through multi-LLM orchestration such as OpenAI, Claude, and Gemini, and includes multilingual voice assistant and chatbot support. [Private]

12. AI-Powered Personal Websites

[Public 1: <https://www.mervekirmiziyuz.com/>] [Public 2: <https://drsergazy.com/>]

Note: Private projects will be shared upon request.

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, TypeScript, PHP
- **Frameworks & Libraries:** Pandas, NumPy, Matplotlib, Next.js, React.js, HTML, CSS, Tailwind CSS, Bootstrap CSS, OCR Tesseract
- **Databases:** PostgreSQL, MySQL
- **Automations:** n8n, Langflow
- **Tools & Technologies:** SQLAlchemy, Linux (Kali Linux), Software Project Management, Software Requirements Analysis, Software Architecture and Design, phpMyAdmin, XAMPP, Image Processing ROI, Docker, CI/CD

CERTIFICATES

- 1. Python for Data Science, AI & Development** - Issued by IBM
- 2. Developing AI Applications with Python and Flask** - Issued by IBM
- 3. Generative AI: Elevate Your Software Development Career** - Issued by IBM
- 4. Django Application Development with SQL and Databases** - Issued by IBM
- 5. Developing Front-End Apps with React** - Issued by IBM

6. **Developing Back-End Apps with Node.js and Express** - Issued by IBM
 7. **Full-Stack Application Development Capstone Project** - Issued by IBM
 8. **Full-Stack Software Developer Assessment** - Issued by IBM
 9. **Application Development using Microservices and Serverless** - Issued by IBM
 10. **Getting Started with Git and GitHub** - Issued by IBM
 11. **Introduction to Cloud Computing** - Issued by IBM
 12. **Introduction to Containers with Docker, Kubernetes & OpenShift** - Issued by IBM
 13. **Introduction to Web Development with HTML, CSS, and JavaScript** - Issued by IBM
 14. **Certificate of Success in Entrepreneurship** - Issued by the European Union
 15. **Internship High Success Certificate** - Issued by Near East University, AI and Robotics Institute
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Note: You can access the originals of all of them on my personal website at <https://muratyanasoglu.com/>

EXTRACURRICULAR ACTIVITIES

- **Founder & President:** Artificial Intelligence Club (Near East University)
- **Member:** CodeCrafters Software Club (Near East University)
- **Representative:** Software Engineering Department Representative (Near East University)
- **Former Licensed Football Player:** Played in youth academies and professional leagues in the TRNC
- **Chess Enthusiast:** Participated in various tournaments and placed third in the Eastern Mediterranean University Chess Tournament