

Celaleddin Omer Saglam

+90 507 821 5761 | saglamcelaleddin@gmail.com | in/celaleddin-omer-saglam | github.com/comersaglam

EDUCATION

Bogazici University — <i>B.Eng. in Computer Eng., Ranked 152/2.5M in YKS (2023/27)</i>	Istanbul, Turkey
Beihang University — <i>Exchange student of BE in Computer Eng. (2025/26)</i>	Beijing, China
Acibadem University — <i>School of Medicine, Minor in Computer Eng. (2020/23)</i>	Istanbul, Turkey
Konya BILSEM — <i>Governmental organization for gifted (+130 IQ) students</i>	Konya, Turkey

EXPERIENCE

Software Engineer Intern <i>Python, Pytorch, ROS 2, Mlflow</i> <i>Kanaria Tech</i>	Jan 2026 – Mar 2026 <i>Tokyo, Japan</i>
- Engineered an end-to-end AI system for social navigation using ROS2, PyTorch to ONNX deployment, and Unreal Engine simulation; achieved 5× inference and 10× rendering speedups via a Docker/FastAPI + MLflow MaaS architecture with LLM API integration. - Developed a novel attention architecture, achieving 30% IoU improvement and improving scalability by reducing complexity of inference and training time from $\mathcal{O}(n^2)$ to $\mathcal{O}(n)$.	
Undergraduate Researcher <i>Python, PyTorch, ROS 2</i> <i>Peking University — ARLab</i>	Nov 2025 – Jan 2026 <i>Beijing, China</i>
At Peking University (CSRankings: #4, QS: #16), working with Prof. Chang Liu on robot navigation in embodied AI, leveraging LLM-based reasoning. Augmented dataset using Meta Habitat.	
Machine Learning Engineer Intern <i>Pytorch, Pandas, Numpy, Django, SQLite</i> <i>University of Amsterdam (UvA) / Amsterdam UMC</i>	Jun 2025 – Sep 2025 <i>Amsterdam, Netherlands</i>
- Built an Image Quality Assessment (IQA) framework for real-time feedback to doctors during colonoscopy, and created a curated dataset (+6k images) with a Django + SQLite annotation platform. - Developed an end-to-end AI pipeline: IQA to CAdE (YOLO for detection) to CAdx (attention-based ResNet for diagnosis). Performed statistical analyses demonstrating integrating IQA improves accuracy of CAdx models.	
Machine Learning Engineer Intern <i>Python, Pytorch, Numpy, Pandas, Medicine</i> <i>Hevi-AI</i>	Jul 2024 – Mar 2025 <i>Istanbul, Turkey</i>
- Company is on the Forbes Turkey Top 10 AI startups list. I developed radiology image classification and object detection models; built BI-RADS classification models for Teknofest and achieved 3rd place. - Utilized transfer learning technique on CNNs for better deep learning results, hyperparameter tuning and data pre-processing methods like cropping the data with YOLO are used to enhance performance.	
Undergraduate Researcher <i>Python, Langchain, Qdrant</i> <i>Acibadem Mehmet Ali Aydinlar University</i>	Jan 2024 – June 2024 <i>Istanbul, Turkey</i>
Built a RAG pipeline to support medical Q&A: created a PubMed-based vector index in Qdrant, applied reranking, and explored LLM fine-tuning to reduce hallucinations and return supporting articles for experts.	
Algorithm Lecturer & Problem Setter <i>Python, Algorithms, Data Structures</i> <i>Inzva</i>	Sep 2024 – Present <i>Istanbul, Turkey</i>
I have given lectures about various advanced algorithms and advanced data structures to top university students of Turkey. Also, wrote algorithm questions to nation-wide algorithm competitions	

AWARDS

BOUN BuCode'24 Algorithm Competition Finalist 13/131 place <i>Python, Algorithms</i>	Feb 2024
Teknofest Hyperloop Competition Finalist 7th place in Turkey <i>Python, Arduino, C++</i>	Jul 2024

TECHNICAL SKILLS

Languages: English C1 (Toefl IBT 98/120), Turkish Native, German A2, Spanish A2
Technical Skills: Python, Java, C++, R, SPSS, XLstat, PyTorch, CUDA, NumPy, Pandas, Algorithms, LangChain
Django, SQLite, Ros2, Arduino, NextJS, Github, Gitlab, Git, MLflow, Docker, FastAPI, UnrealEngine