Umay ŞAMLI

Ankara | samliumay965@gmail.com | (+90)0536 985 95 98 | (+32)0499 61 18 32

github.com/samliumay.com | linkedin.com/in/umay-samli

Summary

Highly motivated Computer Scientist with hands-on experience as a Lead Software Engineer and Cyber Security Engineer. At my Lead Software Engineer position, I also managed the DevOps life-cycle of the product. Did AI Security tests and created AI compliance documents at NATO.

Currently focusing on Artificial Intelligence and AI Security, combining technical depth with research-oriented curiosity. I am seeking opportunities as an AI/ML Engineer or AI Researcher. Still highly motivated to apply my leadership experience in complex software development and mid-level cybersecurity engineering roles.

Education

TED University, MS in Computer Science   Sept 2025 – Jun 2027
- GPA: 4.0/4.0 (full Success Scholarship)
- Currently working on Explainable AI, AI Red Teaming, Reinforced Learning and Distributed Systems.

TED University, BS in Computer Engineering   Sept 2019 – Jun 2023
- GPA: 3.8/4.0 (High Honor graduate)
- (FHR): Developed a platform to compare ML-Based De-hazing algorithms, comparing the current de hazing algorithms and developing a platform for ML Researchers about image processing. Wanted to develop our own model with the data-set, we did not have the computational power to train it.

TED University, SD in Applied Data Science   Sept 2021 – Jun 2023
- GPA: 4.0/4.0 (High Honor graduate)
- (ROOAPSEA): A research project focused on finding the most effective machine learning algorithms for predicting airline passenger satisfaction. We analyzed multiple models and created a performance report — useful for designing ML-based satisfaction estimation systems.

Experience

Cyber Security Engineer, NATO – Brussels, BE   May 2025 – Nov 2025
- Contributed to cloud architecture design, developing comprehensive architectural frameworks based on specific use cases and constructing detailed attack tree models to assess security vulnerabilities.
- Engaged in public and private cloud auditing, focusing on technical security implementations, including life-cycle management, cloud security frameworks and technical implementation of security measures.
- Supported NATO's Zero Trust Policy, Zero Trust Maturity Model and Zero Trust Implementation Plans. Used Cloud (Private, Public and Hybrid model deployment to explain how to implement zero-trust.

Lead Software Engineer, HistoCan – Ankara, TR   Jan 2025 – Apr 2025
- Developed the automated pathology lab assistant software. Developed Front-End and Back-end by myself. Also, designed a relational database and did tests to optimize it. I chose to go with API Composition Microservice pattern.
- Deployed the system to cloud environment and troubleshoot it if needed.

AI Engineer, Outlier – Remote   Nov 2024 – Dec 2024
- Did red-teaming tests of the models itself. Identified vulnerabilities of the models and reported then. Sometimes corrected the given output for re-training the data. Also analyzed models chain-of-reason and reported any suspicious reasoning events.

Cyber Security Engineer, NATO – Mons, BE   Nov 2024 – Dec 2024
- Wrote the first version of AI Governance and Security policy for CIS accreditation side.
- Wrote a specialized python script for automated Personal Identifiable Information detection. At the second version it was applicable to automatically inform the related people.

- Re-Analyzed all CIS accreditation controls, mapped with NIST 800-53 and ISO-27002. Integrated CSA's cloud controls and AI Security controls. Updated the system for system topology analysis and risk management.
- Did the risk assessment for 2 different systems and provided comprehensive analysis for CIS Accreditation authorities.

Software Engineer, TAI – Ankara, TR   Nov 2024 – Dec 2024
- Factory Security System: Designed and deployed a Factory Tracing System utilizing IIoT and PLC technology, significantly boosting UAV assembly line efficiency and security monitoring.

Software Engineer, ASELSAN – Ankara, TR   Jul 2022 – Aug 2022
- Shift Planner Automation: Developed an Automated Shift Planner with machine learning features, optimizing workforce scheduling and improving data-driven decision-making for increased efficiency.

Software Engineer, Savronik – Ankara, TR   Jul 2021 – Sep 2021
- Automated Train Testing System: Created a Docker-containerized testing platform for train systems, reducing test cycles by 15

Skills

Programming Languages: Python, Java, C, C♯, C++, JavaScript, Bash

Front-End: React, Bootstrap, SCSS, SASS, .NET, JavaFX, Vite

Back-End: Spring Boot, Django, FastAPI, REST & SOAP APIs, Algorithms (Complexity Optimization), Relational Databases (PostgreSQL, MSSQL), Non-Relational Databases (MongoDB)

DevOps: Docker, Kubernetes, Git, GitHub, GitLab, Linux Servers (Ubuntu, Red Hat), AWS / Azure / Google Cloud (VM, Storage), Bash Scripting, Apache Tomcat, Nginx, Postman, Selenium (used at HistoCan), Redis (Cache), Cloudflare Load Balancing

DevSecOps: Infrastructure as Code, Network Virtualization, IAM Configuration, Container Security, Security Auditing, Network Sniffing (Wireshark)

Cyber Security: Web Application Firewalls (Cloudflare), Compliance & Frameworks (ISO 27001/27002, NIST 800-53, Zero-Trust Architecture), Risk Management (ISO 27005, NIST RMF), Secure-by-Design Systems, Red Teaming (Nessus, Burp Suite, Nmap), Blue Teaming (Splunk, SNORT), AI Red Teaming (Mingard, PyRIT), IDS/IPS (Nozomi, Claroty)

References

Dr. Burak Ekici
Senior Researcher
University of Oxford
Department of Computer Science
burak.ekici@cs.ox.ac.uk
Reference Letter

Dr. Ulas Gulec
Associate Professor
TED University
Department of Computer Engineering
ulas.gulec@tedu.edu.tr
Reference Letter

Dr. Emin Kugu
Assistant Professor
TED University
Department of Software Engineering
emin.kugu@tedu.edu.tr
Reference Letter

Mr. Holger Spohn
CISO, Head of Operational IT & AIM
Candriam / NATO SHAPE
Cyber Security Division
spohni@aol.com
Reference Letter

Notes: For more sectoral references, check my GitHub page. If you want to see the certifications I have, check my Linkedin.