

Melisa Aslan

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github.com/Melisaslannn

ABOUT

Third-year Computer Engineering student at Aydın Adnan Menderes University, interested in artificial intelligence, data science, robotics and cybersecurity. Selected for **Microsoft's AI Innovators Summer Program**, where I built a local security advisor with **Azure AI Foundry Local**. As a Core Team Member at **Huawei Student Developers ADU**, secured a **Unity** sponsorship of four annual licenses for the ADU Youth Summit Game Jam. Also have hands-on robotics research experience with **ROS2** from an undergraduate research internship.

EDUCATION

Aydın Adnan Menderes University, BS in Computer Engineering (English) – Aydın 2024 – 2028
GPA:3.27/4.00

Ankara Yıldırım Beyazıt University, English Prep School – Ankara 2023 – 2024
Completed with C1 Level (Score:98.75/100)

EXPERIENCE

Undergraduate Research Intern (Robotics), Department of Computer Engineering, ADU – Aydın June 2026 – July 2026
Supervised by Assoc. Prof. Dr. Ahmet Çağdaş Seçkin; internship focused on understanding the working principles of an autonomous robotic platform

- Studied **ROS2** node communication on a **Raspberry Pi 5**-based robotic platform and configured remote Linux workspaces for hardware integration.
- Researched autonomous navigation paradigms, focusing on 3D Depth Camera/LiDAR integration and comparing **SLAM** algorithms with QR/AprilTag localization.
- Analyzed multi-axis robotic arm control mechanisms and joint movement principles required for object manipulation tasks.

EXTRACURRICULAR ACTIVITIES

Core Team Member, Huawei Student Developers ADU – Aydın Oct 2025 – June 2026

- Initiated and led a sponsorship partnership with **Unity**, transforming an initial LinkedIn outreach into a signed collaboration and securing **four annual Unity licenses (USD 9,240 value)** for ADU Youth Summit Game Jam participants.
- Managed post-event partnership activities, coordinating recipient verification and license distribution, and maintaining an ongoing partnership for future collaborations.
- Assisted with on-site event operations by welcoming participants, coordinating attendee flow, and ensuring smooth event execution in collaboration with the organizing team.

PROJECTS

Azure AI Foundry Local LLM Application — Microsoft AI Innovators Summer Program

github.com/Melisaslannn/cve-advisor

- Selected for **Microsoft's AI Innovators Summer Program** built a fully local security advisor with **Azure AI Foundry Local** that answers code and configuration questions with source citations, using **RAG** over OWASP Top 10 and NVD CVE records.
- Implemented chunking, local embeddings, cosine-similarity retrieval with an off-topic threshold, and **query rewriting** to improve matching on raw code in **Python**.
- Iterated on the system prompt to fix output format and citation issues, added repetition-loop detection for the small model, and built a **Gradio** interface; documented on GitHub.

Smart Greenhouse Climate Control System

- Designed and developed an **ESP32**-based smart greenhouse system for real-time environmental monitoring and automated climate control.
- Implemented **C++** control algorithms integrating DHT22 temperature and humidity sensors with relay-controlled actuators.
- Performed circuit design, sensor calibration, and hardware integration to enable continuous autonomous monitoring and climate regulation.

OSINT Phone Number Exposure Checker

- Developed a Python-based OSINT tool with both CLI and **Flask** web interfaces to assess phone number exposure across public data breach sources.
- Integrated Have I Been Pwned (**HIBP**) and **LeakCheck** APIs alongside automated Google Dork queries to aggregate exposure data.
- Designed a modular architecture that enables rapid breach analysis through both command-line and web-based interfaces.

TRAINING & CERTIFICATIONS

Siber Vatan

Nov 2025 – June 2026

Advanced cybersecurity training program at Siber Vatan covering offensive and defensive security techniques.

- Completed technical training in Linux administration, network security, and penetration testing.
- Ranked **19th** in the Siber Vatan CTF competition (6,300/10,000), qualifying for the selective 5-day in-person training program (**Top 40**).
- Earned the **White Hat Hacker certificate** upon successful completion of the in-person training program.

SKILLS

Programming: Python, C/C++, Java, JavaScript, SQL

Cybersecurity: Linux CLI, Nmap, Wireshark, Gobuster, Basic OSINT

Embedded Systems: ESP32, Arduino

Professional Skills: Sponsorship Management, Corporate Communication, Community Engagement

Languages: Turkish (Native), English (Professional Working Proficiency)

AI/LLM: RAG, Prompt Engineering, Azure AI Foundry Local, Gradio