

Karim Ahmed

Cairo, Egypt • karim.ahmed4815@gmail.com • +201118808688

Cybersecurity Researcher & Engineer | (ISC)² Member | Specializing in AI-Driven Defense, Secure AI Systems, AI Integration and Cloud Security

Education

German University in Cairo (GUC)

Cairo, Egypt

Master of Science in Computer Science and Engineering

Awarded July 2025

Thesis Title: A Self-Adaptive Agentic Moving Target Defense Architecture for Real-Time Cyber Threat Response

German University in Cairo (GUC)

Cairo, Egypt

Bachelor of Science in Computer Science and Engineering

Awarded July 2024

Thesis Title: 3D Reconstruction of Human Characters

Experience

GUC

Teaching Assistant

Cairo Egypt

September 2024 – Present

- Taught more than 250 students the fundamentals of Full-Stack development using the MERN stack, and Cloud Computing fundamentals using VMware.
- Introduced a new course, Agentic AI development lab, to be taught in the Spring 2026 semester.
- Co-founded the Artificial Intelligence Research Lab GUC (AIRLab GUC), which focuses on researching and developing new technologies for cybersecurity, cloud computing and NLP using Artificial Intelligence, launches Spring 2026.

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Remote

Software Engineer

July 2024 – October 2024

- Developed and maintained the frontend for the webApp, consistently being one of the top contributors
- Initiated new security controls to further secure the online transactions using different threat models.

Certifications

ISC2 Certified in Cybersecurity (CC) - [Credly](#)

AWS Cloud Practitioner CLF-C02 - [Credly](#)

OWASP Top 10 - [TryHackMe](#)

Google Cybersecurity Professional Certificate - [Coursera](#)

Research and Projects

- **Automating Moving Target Defense Using LLMs:** Focus areas include dynamic network reconfiguration, Threat Intelligence enrichment through CVEs and TTPs, and autonomous policy generation.
- **Self-hosted cyber-rang:** Built a private cloud, automating VM lifecycles with Python/Bash and securing remote access through Tailscale VPN, SSH keys, RBAC, IP-whitelisting & audit logs; cutting CSP costs to zero while granting full control over deployment, access, and security for tailored cybersecurity and cloud-computing training.

Skills & Interests

Technical: Python, Bash, Java, Javascript, Typescript, C; MySQL, NoSQL; git

Cloud: AWS, GCP, VMware

Security: Metasploit, MSFVenom, Caldera, CyberBattleSim, BurpSuite, Nmap, Wireshark, Suricata, Splunk and Snort

Frameworks & Standards: ISO 27001, MITRE ATT&CK & D3FEND, NIST CSF/RMF, STRIDE, PASTA, TRIKE

AI: Agentic Design, RAG, TensorFlow, PyTorch, LangChain, Ollama

Soft Skills: Agile Methodologies, problem-solving, effective communication, team collaboration, time management