Ahmed Mohammed Saad El-Raggal

Information Security Analyst | IT & Network Infrastructure

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PROFESSIONAL SUMMARY

Information Security Analyst and IT professional with a foundation in network infrastructure, penetration testing, risk management, and secure application development, built through part-time and remote training programs with DEPI, ITI, and NTI — several completed concurrently as part of a multi-track upskilling plan. Executes vulnerability assessments, establishes Secure SDLC workflows, and designs highly available networks. Applies Python, Cryptography, and AI (YOLOv8) to resolve technical challenges and strengthen digital environments against emerging threats. Currently seeking a full-time Information Security role to apply this expertise in a professional enterprise environment.

WORK EXPERIENCE

Information Security Analyst Intern | 06/2025 — 03/2026

Digital Egypt Pioneers Initiative (DEPI) — Alexandria, Egypt

- Monitored enterprise systems consisting of 50+ nodes using SIEM tools, analyzing logs to identify and mitigate potential security threats.
- Carried out comprehensive vulnerability assessments across 3 distinct network segments, prioritizing remediation based on risk impact.
- Documented incident response workflows and mitigation steps for 10+ simulated cyber attack vectors.

Cyber Security Trainee | 05/2025 — 01/2026

Information Technology Institute (ITI) — Port Said, Egypt

- Completed an intensive 8-month, 4-phase program encompassing network infrastructure (CCNA & Cloud).
- Mastered penetration testing methodologies (eJPT prep) by solving 20+ complex web app security challenges.

Generative AI Trainee (Part-time) | 05/2025 — 01/2026

Information Technology Institute (ITI) — New Capital, Egypt

- Explored the fundamentals of Generative AI, Large Language Models (LLMs), and prompt engineering across 4+ practical modules.
- Built and deployed 3+ AI-driven applications using current frameworks to automate complex tasks and streamline workflows.

Network Security Intern (Part-time) | 08/2025 — 09/2025

National Telecommunication Institute (NTI) — Alexandria, Egypt

- Established SOC operations practices across 4 core areas: IAM, vulnerability management, incident response, and security policy governance.
- Resolved 15+ security incidents within advanced simulated enterprise environments to ensure data protection.

Freelancing Program Trainee (Part-time) | 05/2025 — 09/2025

ITIDA — Remote

- Won 20+ freelance technical contracts by crafting targeted proposals that highlighted relevant expertise.

Ethical Hacking Intern | 12/2024 — 02/2025

Cyberx World — Remote

- Performed hands-on penetration testing and vulnerability scanning across 5+ simulated enterprise networks.
- Employed strict ethical hacking methodologies to identify security risks, recommending 10+ immediate remediation strategies.

Cybersecurity Bootcamps (Part-time) | 10/2024 — 01/2025

CyberTalents & EFEGlobal — Remote

- Analyzed network threats and applied incident handling techniques to resolve 15+ real-world cybersecurity challenges.

Cisco Cybersecurity Engineer Trainee | 03/2024 — 12/2024
DEPI — Alexandria, Egypt

- Configured Cisco network architectures, implementing advanced switching and routing while managing 5+ secure access policies.

Artificial Intelligence Intern (Part-time) | 10/2024 — 12/2024
NTI — Alexandria, Egypt

- Gained practical experience in Python, Machine Learning, and Deep Learning across 5+ exercises.
- Built 2+ practical AI solutions using advanced data analysis tools and development frameworks.

AWS Cloud Computing Intern (Part-time) | 09/2024 — 12/2024
Manara — Remote

- Evaluated 3 AWS service architectures, billing structures, and pricing models to inform cost-effective cloud strategy decisions.

IT Instructor | 03/2024 — 07/2024
Freelance — Remote

- Trained 30+ students in Python, Java, and networking fundamentals through structured, practical instruction.

EDUCATION

Bachelor of Technology in Information Technology — GPA: 3.23/4.00 | Sep 2022 — Sep 2026
Borg El Arab Technological University (BATU), Alexandria, Egypt

- Specialization: Computer Networks.
- Relevant Coursework: Networking Fundamentals, CCNA, CyberOps, Computer Security, and IT Infrastructure.

TECHNICAL SKILLS

Security & Risk: Penetration Testing • Vulnerability Assessment • Ethical Hacking • Secure SDLC • Risk Management • Threat Modeling • Security Architecture • Compliance (ISO 27001, NIST, PCI-DSS) • Cryptography • Incident Response • SIEM • SOC Operations • Log Analysis • Security Policies & Governance

Networking: CCNA • VLAN • OSPF • IAM • ACLs • SSH • HSRP • EtherChannel

Programming & AI: Python • Flask • C • C++ • Java • Generative AI • Computer Vision

Other: Circuit Design

Core Competencies: Communication • Problem Solving • Team Collaboration • Time Management • Adaptability

CERTIFICATIONS

- CCNP: Core Networking — Cisco
- CyberOps Associate — Cisco
- Junior Cybersecurity Analyst — Cisco
- DevNet Associate — Cisco
- CCNA — Cisco
- FortiGate 7.4 Operator — Fortinet
- HCIA-AI — Huawei
- NVIDIA Gen-AI — NVIDIA
- 365 Data Science — 365 Data Science

PROJECTS

Egyptian Currency Recognition System — *Python, YOLO*

- Engineered an AI-driven computer vision model using YOLO to identify and classify Egyptian currency denominations in real-time.
- Managed dataset collection and integrated an offline Text-to-Speech (TTS) engine to provide auditory feedback for the calculated total sum.

Smart Assistive Cane (IoT Security & Safety) — *C++, Digital Electronics*

- Designed an ESP32 smart stick with ultrasonic sensors for real-time obstacle detection.
- Integrated GPS tracking, mobile connectivity, and an automated SOS emergency alert system.

BuggedCart (Web App Security Assessment) — *Penetration Testing, Vulnerability Assessment, Ethical Hacking*

- Programmed a vulnerable web application to simulate OWASP Top 10 vulnerabilities (SQLi, XSS, CSRF).
- Executed a complete Secure SDLC workflow encompassing vulnerability scanning, controlled exploitation, and patching.

Password Analyzer & Secure Storage Tool — *Python, Cryptography*

- Created a secure authentication backend using Python and Flask to simulate a secure data lifecycle.
- Applied industry-standard cryptographic techniques using SHA-256 hashing coupled with dynamic salting.

Campus Area Network (Enterprise Infrastructure) — *CCNA*

- Designed a highly available enterprise network featuring VLAN segmentation, OSPF routing, and redundant DHCP servers supporting 100+ endpoints.
- Enforced robust access controls via ACLs and explicit SSH configurations, ensuring failover via HSRP and EtherChannel.

Real-Time Fire Detection — *Computer Vision, Python*

- Built an advanced computer vision model utilizing the YOLO architecture to accurately detect fire hazards in real-time.
- Optimized the object detection algorithm for high-speed video feed analysis, ensuring low latency and immediate alerting.

Shift Register 4-Bit — *Circuit Design, Digital Electronics*

- Built a digital electronics system utilizing an IC 74194 and a 555 timer to manage 4-bit data.

IoT Smart Water Tank — *C++, Digital Electronics*

- Constructed an IoT-based system with precision sensors for real-time monitoring of water level, volume, purity, and salinity.
- Incorporated the electronic control unit with a mobile app, enabling remote data visualization and automated pump control.

CNC Laser Cutter — *Microcontrollers, Stepper Control*

- Built a high-precision 90W laser CNC machine for accurate cutting and engraving.
- Programmed the machine to seamlessly convert and process any custom digital shape or pattern.

LANGUAGES & INTERESTS

Languages: Arabic (Native), English (Fluent)

Interests: Open Source, Continuous Learning