

Ahmed Adel Bakr Alderai

ICT Security Specialist & AI-Safety Researcher

Dublin, Ireland · Stamp 4 · UAE Golden Visa — no sponsorship required | Ahmed@alderai.uk · +971 50 260 8423 · +44 7584 848762 · [linkedin.com/in/ahmedadel1991](https://www.linkedin.com/in/ahmedadel1991)

Cybersecurity professional with **13+ years** across high-stakes financial and telecommunication sectors — risk management, governance, penetration testing, incident response and the security of emerging technology (AI/ML, IoT, 5G, cloud). At Vodafone Group, led security assurance for AI/ML, IoT and 5G initiatives, grew the function from 5 to 25 staff, and represented the business in the GSMA NESAS scheme. Now focused on AI safety and LLM red-teaming through Alderai AI and the loom platform. Arab Security Conference speaker and published AI-security researcher.

PROFESSIONAL EXPERIENCE

Founder & AI-Safety Researcher — Alderai AI (DET 1628399)

Dubai, UAE · 2026 – Present

- Founded a Dubai-licensed AI assurance practice focused on LLM red-teaming and EU AI Act Article 15 testing.
- Built and operate **loom**, an in-house model-evaluation platform, on a dedicated NVIDIA RTX PRO 6000 (96GB).
- Research adversarial robustness, prompt-injection defence and jailbreak resistance across the OWASP LLM Top 10.

Cyber Security Assurance Expert Lead / Senior Cybersecurity Manager — Vodafone Group

London, UK · May 2018 – 2025

- Led security risk assessments and threat modelling for AI/ML, IoT and 5G initiatives, aligning them to enterprise risk and compliance frameworks.
- Grew the IT security function from 5 to 25 staff over 5 years and administered a ~\$45M annual budget.
- Represented Vodafone in the GSMA Network Equipment Security Assurance Scheme (NESAS), shaping industry security standards.
- Achieved an 80% reduction in hacking threats and a 75% reduction in vulnerability scores through hardening and detection tuning.
- Led penetration testing, red/blue-team exercises and SIEM (Splunk) tuning; reported to the Chief Technology Security Officer.

Security Assurance & Cyber Security Senior Analyst — Vodafone

Cairo, Egypt · Sep 2016 – May 2018

- Application and network penetration testing, incident response and data protection.
- Investigated information-leakage, fraud, privilege misuse and anomalous network behaviour.
- Built a process to detect and alert on new network devices within 15 minutes; ran 3 full-cycle IT audits.

Information Security Compliance Officer — E-Finance

Cairo, Egypt · May 2015 – Sep 2016

- Developed and implemented security policies and procedures based on ISO 27001 and PCI DSS.
- Lead consultant for two large PCI-DSS compliance remediation projects.
- Achieved successful ISO/IEC 27001, PCI DSS and Card Production certifications.

Earlier: Cyber Security Trainee — ITI (Postgraduate Diploma, top 5%), Cairo, 2014–15 · Junior Cyber Security Analyst — International Business Services (IBS), Cairo, 2013–14 · Technical Support Specialist — RESALA Training Center, Cairo, 2009–13.

SKILLS

Offensive Security: Penetration Testing, Red & Blue Teaming, Threat Modelling, Vulnerability Management, Web App Security, LLM Red-Teaming

AI/ML & Emerging: AI/ML Security, IoT & 5G Security, SCADA/ICS Security, Cloud (Azure, AWS), Adversarial Robustness

Tools: Splunk, LogRhythm, Nessus, Qualys, Snort, FireEye, Cisco ASA, Burp Suite, Metasploit

Defensive & SecOps: Incident Response, Digital Forensics, Detection Engineering, SIEM (Splunk, LogRhythm), DLP/WAF/DDoS

Governance, Risk & Compliance: ISO 27001, PCI DSS, NIST CSF, NIS2, GDPR/UAE PDPL, Risk Management, Data Privacy

Programming: Python, C/C++, PowerShell, Bash

CERTIFICATIONS

eWPT — Web Application Penetration Tester (eLearnSecurity)

CCNA — Cisco Certified Network Associate

JNCIA-Cloud — Juniper Networks Certified Associate (Cloud)

In progress: OSCP (Offensive Security) · CISSP (ISC²) · CISA (ISACA) · GWAPT (SANS) · PRINCE2

eCPPTv2 — Certified Professional Penetration Tester (eLearnSecurity)

Cisco CyberOps Associate

301V ICS — Industrial Control Systems (US DHS)

EDUCATION

MSc Computer Science — Ain Shams University, Cairo

Oct 2021 – Sep 2025

Thesis: "Developing AI Secure Techniques for IoT in Healthcare" (ML model). Research focus: AI/ML security in healthcare IoT.

BSc Computer Science — Egyptian Aviation Academy, Cairo

2008 – 2012

Grade: Very Good · Graduation project (AI-related): Excellent. Postgraduate Diploma in Cyber Security — ITI (2014–15).

PUBLICATIONS & SPEAKING

Be Part of the Future: Machine Learning and Cyber Security — Speaker, Arab Security Conference 2021, Egypt

Mobile Doctor Brain AI App: AI for IoT Healthcare — Speaker, ICCMIT'18 Madrid + Wiley chapter (ISBN 978-11-19509-87-5)

Smart AI-IoT Healthcare Solution in Smart Homes — Author, **TELEMEDICINE** chapter (ISBN 978-93-87500-35-8)
Security BSides London 2021 — Teaching Assistant & Volunteer · Languages: Arabic (native), English (fluent)