Aziz Alghamdi

Cybersecurity & Criminal Justice Professional

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Located in Riyadh, Saudi Arabia

Education

2021–2025 **Bachelor of Arts and Science in Computer Science**, *University of Colorado at Colorado Springs*, GPA: 3.8/4.0

Emphasis on Cybersecurity with a Minor in Criminal Justice

Relevant Coursework: Digital Forensics, Network Security, Cryptography, Criminal Procedure, Cybercrime Investigation, Computer Systems Security, Evidence Law

Member of Cybersecurity Club & Participant in National Cyber League competitions

Technical Skills

Security	Digital Forensics, Incident Response, Penetration Testing, Network Security, Cryptography
Programming	Python, C++, Java, SQL, Bash, PowerShell
Tools	Wireshark, Metasploit, Nmap, Burp Suite, EnCase, Kali Linux, SIEM platforms
Systems	Windows, Linux, Virtualization, Cloud Security, Network Architecture

Certifications

2024 **Computer Forensics Specialist**, *GIAC*

2023 **Certified Ethical Hacker (CEH)**, *EC-Council*

2023 **CompTIA Security+**, *CompTIA*

Experience

2023–Present **Research Assistant**, *University Cybersecurity Lab*, Colorado Springs

- Developed tools for automated malware analysis and cryptocurrency transaction tracing
- Conducted research on tracking illicit cryptocurrency transactions while maintaining chain of custody
- Co-authored research papers on digital evidence collection methodologies

Jun 2023–Aug 2023 **Cybersecurity Intern**, *XYZ Technologies*, Colorado Springs

- Assisted security operations team in monitoring and analyzing potential security threats
- Conducted security audits on internal systems and documented findings
- Participated in vulnerability assessments and incident response simulations

Research

Publication "Forensic Analysis of Cryptocurrency-Based Ransomware Attacks: Criminal Justice and Technical Perspectives", Journal of Cybersecurity & Digital Forensics, 2024

Ongoing Research "Post-Quantum Cryptography Implementation Challenges: Security Implications for Critical Infrastructure", with Dr. Sarah Chen & Dr. Michael Rodriguez

Publication "Quantum Cryptography Implications for Digital Evidence in Criminal Investigations", International Journal of Digital Criminology, 2025

Projects

Digital Forensic Analysis Toolkit

Developed a comprehensive digital forensic toolkit that automates the collection and analysis of volatile and non-volatile data from compromised systems. The tool incorporates chain-of-custody documentation to ensure evidence admissibility in legal proceedings.

- Technologies used: Python, Digital Forensics libraries, Memory Analysis frameworks

Cryptocurrency Transaction Tracer

Created a tool that visualizes and analyzes cryptocurrency transaction patterns to identify suspicious activities. The system employs machine learning algorithms to detect potential money laundering techniques and generates reports suitable for law enforcement investigations.

- Technologies used: Blockchain APIs, Machine Learning algorithms, Data Visualization frameworks

Zero-Trust Security Implementation Framework

Designed and implemented a zero-trust security architecture for a university research lab environment. The framework includes continuous authentication protocols, least privilege access controls, and comprehensive activity logging for security monitoring and incident response.

- Technologies used: Network Security tools, Access Control systems, Security Architecture designs

Additional Activities

Participated in Capture The Flag (CTF) cybersecurity competitions

Volunteer speaker at local high schools on cybersecurity awareness

Member of ISACA (Information Systems Audit and Control Association)

Active contributor to open-source security tools on GitHub