# Aziz Alghamdi

## Cybersecurity & Criminal Justice Specialist

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### ---- Profile

Cybersecurity researcher specializing in cryptocurrency forensics and post-quantum cryptography with 7 peer-reviewed publications. Proven success in developing digital forensic tools that reduced investigation time by 40% and increased threat detection by 85%. Seeking to leverage technical expertise in blockchain analysis, digital forensics, and criminal justice background to enhance organizational security.

## Education

2021–2025 **Bachelor of Arts and Science in Computer Science**, *University of Colorado at Colorado Springs*, GPA: 3.9/4.0 Specialization: Cybersecurity with Minor in Criminal Justice • National Cyber League Competitor (Top 15%)

## Research & Projects

#### 2024-2025 Digital Forensics Research

- Authored 7 publications in Journal of Cybersecurity & Digital Forensics and International Journal of Digital Criminology
- Developed cryptocurrency transaction framework reducing investigation time by 40%
- Created ML-powered blockchain visualization tool with 85% accuracy in detecting money laundering patterns
- ullet Designed zero-trust security architecture reducing unauthorized access attempts by 90%
- Conducted security awareness training for 200+ students, reducing phishing success by 75%

#### 2023-2024 Key Technical Projects

- Digital Forensic Toolkit: Python-based automated forensic data collection with chain-of-custody
- Post-Quantum Implementation: Security framework for critical infrastructure during quantum transition
- Blockchain Forensics Tool: Identified patterns in cryptocurrency transactions for criminal prosecution

## Technical Expertise

Core Skills Digital Forensics • Incident Response • Penetration Testing • Blockchain Analysis • Post-Quantum Cryptography • Secure Coding • Threat Intelligence • Security Compliance

Tools Wireshark ● Metasploit ● Kali Linux ● Nmap ● Burp Suite ● SIEM Solutions ● Autopsy ● Memory Analysis Tools

Programming Python (Advanced) • C++ • C# • SQL (Advanced) • PowerShell • Bash Scripting

Compliance NIST Framework • ISO 27001 • GDPR • Chain-of-Custody • Criminal Evidence Procedures

## Certifications & Professional Development

- 2025 **Google Cybersecurity Professional Certificate** Comprehensive cybersecurity program covering security fundamentals, tools, and practical skills
- 2025 **Key Specializations:** Foundations of Cybersecurity Assets, Threats, and Vulnerabilities Automate Security Tasks with Python Play It Safe: Manage Security Risks Tools of the Trade: Linux and SQL
- 2024 **Professional Development:** DEF CON 32 Conference Mountain Lions Cyber Club International Journal of Digital Criminology Contributor

#### Selected Publications

- 2025 Post-Quantum Cryptography Implementation Challenges: Security Implications for Critical Infrastructure
- 2024 Forensic Analysis of Cryptocurrency-Based Ransomware Attacks: Criminal Justice and Technical Perspectives, Journal of Cybersecurity & Digital Forensics
- 2024 **Blockchain Forensics:** Challenges in Criminal Prosecution of Cryptocurrency-Related Crimes, International Journal of Digital Criminology