

Bassam A. Alotaibi

AI & Cybersecurity Governance Researcher | Information Security Manager

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Summary

Technical Researcher and Information Security Manager with advanced expertise in cybersecurity governance, AI policy, and incident response automation. Holds a strong track record combining academic research and practical implementation across government, nonprofit, and private sectors. Earned a Master's degree in Cyber Security from Lancaster University, UK, and leads national initiatives in data governance and digital transformation.

Research Interests

- AI-Driven Cybersecurity Governance.
- Incident Response Automation and SOC Analysis.
- Explainable Artificial Intelligence (XAI).
- Governance, Risk, and Compliance Frameworks for Governmental and Financial Entities.
- Federated Learning and Secure Distributed Systems.
- Digital Trust and AI Regulation in Government Institutions.
- Threat Modelling and Data Leakage Prevention.
- Risk-Based Decision Support Systems.

Education

Lancaster University | United Kingdom

Master's Degree in Cyber Security | Merit | 2024

Thesis: "A Peer-to-Peer Federated Learning Framework for Intrusion Detection in Autonomous Vehicles"

Key Modules: Network Security, Cybercrime Analysis, Digital Forensics, Penetration Testing, Risk Management, Information Systems Security.

Shaqra University | Saudi Arabia

Bachelor's Degree in Computer Science | Excellent with First Class Honors | 2020.

Publications & Research

"A Peer-to-Peer Federated Learning Framework for Intrusion Detection in Autonomous Vehicles" - Master's Thesis | Lancaster University, UK | 2024.

- Developed SR-1CNN model with 94.39% detection accuracy on NSL-KDD and 99.97% on automotive attack datasets.
- Enhanced privacy and eliminated reliance on centralized servers.
- Addressed data heterogeneity challenges and achieved high operational stability.

Professional Engagement

- Speaker & Representative of "Exprience" Company – Panel: Cybercrime and Data Breach Challenges in FinTech | Money20/20 Middle East Conference | 2025.

Experience

Experience Company | Riyadh, Saudi Arabia

Information Security Manager | July 2025 – Present.

- Lead cybersecurity strategy aligned with ISO 27001, NIST, and SAMA to safeguard digital assets.
- Design and manage ISMS, oversee governance policies, data protection, and risk management.
- Manage incident response, ensure compliance, and promote a culture of cybersecurity awareness.

Orevix Technologies | Riyadh, Saudi Arabia

Founder & CEO | 2025 – Present.

- Established a tech firm specializing in AI-powered cybersecurity and secure digital transformation.
- Oversee product development, technical architecture, and innovation in compliance automation tools.
- Manage investment expansion and build strategic partnerships with regulators and national programs.

Kafa'a Association for Operations & Maintenance | Riyadh, Saudi Arabia

Board Member | February 2025 – Present.

- Provide strategic guidance in cybersecurity governance and operational risk management.
- Review and approve digital policies to ensure compliance with national standards.
- Support capacity-building programs and partnerships to enhance digital trust and technical readiness.

Buniah for AI & Data Association | Riyadh, Saudi Arabia

Founder & Chairman | 2025 – Present.

- Founded a nonprofit focused on AI governance, data ethics, and responsible digital transformation.
- Lead policy design and planning, overseeing committees for compliance and institutional excellence.
- Build partnerships and deliver programs that promote digital literacy and sustainable governance.

Hyundai Engineering Co. Ltd. | Riyadh, Saudi Arabia

Information Security Specialist | February 2025 – July 2025.

- Implemented and monitored cybersecurity controls to protect systems and ensure continuity.
- Conducted regular risk assessments, identified vulnerabilities, and proposed security solutions.
- Developed security monitoring systems and coordinated with teams to ensure compliance.

Safari Group | Riyadh, Saudi Arabia

Application Support | September 2020 – July 2022.

- Provided technical support for enterprise applications and resolved system issues.
- Analyzed problems, identified root causes, and implemented solutions with development teams.
- Monitored performance and applied updates to enhance efficiency and reliability.

Skills

- Research Skills: Technical writing, academic review, data analysis, scholarly publishing.
- Cybersecurity Governance: ISO 27001, NIST CSF, SAMA CSF, NCA ECC, PDPL.
- Incident Response & SOC: SIEM, DFIR, threat hunting, monitoring, IR lifecycle.
- AI & Machine Learning: Federated learning, anomaly detection, model evaluation and optimization.
- Cloud Security: Microsoft Azure, AWS, IAM, Zero Trust.
- Risk & Compliance: GRC frameworks, business continuity, vendor risk management.
- Security Engineering: Encryption, network security, endpoint protection.
- Tools & Programming: Python, Bash, Wazuh, ELK Stack, GitHub, SIEM/EDR platforms.
- Personal Skills: Leadership, analytical thinking, presentation & persuasion, communication, decision-making.

Leadership & Community Engagement

- Lead national initiatives in AI governance and digital ethics.
- Supervise volunteers, committees, and educational programs at Buniah Association.
- Mentor students and professionals in cybersecurity and AI fields.
- Represent organizations in strategic partnerships and national tech events.

Memberships

- Member | Saudi Council of Engineers | 2022 – Present.

Languages

- Arabic (Native).
- English (Advanced).