

AREAS OF EXPERTISE

Virtual Environments & Systems Management

Configuration & deployment of Virtual Environments

Management of Hardware & Software Systems

Programming & Scripting

C, C++, Bash, and PowerShell proficiency.

Security & Cryptography

Cryptographic Protocols (Encryption, Integrity, Authentication Mechanisms)

Network Configuration & Security

DNS, VPN, Subnets, Access-Control

SIEMs (Splunk, ELK) & IDS/IPS Systems

ADVANTAGES

Advanced Critical Thinking & Analytical Problem Solving

Technical Troubleshooting & Root Cause Analysis

Log Analysis & Anomaly Detection

Cyber Threat Intelligence Analysis

Security Policy Development & Enforcement

ACADEMIA

TAFE NSW February 2022 – November 2024

- ADVANCED DIPLOMA OF INFORMATION TECHNOLOGY – CYBERSECURITY

- CERTIFICATE IV OF INFORMATION TECHNOLOGY – CYBERSECURITY

INDEPENDENT RESEARCH REPORT

November 2023 – March 2024

- ANALYSIS OF THE A5/1 CIPHER

ECCOUNCIL June 2023 – August 2023

- CERTIFIED ENCRYPTION SPECIALIST - ECES

COMPTIA 2022 - 2023

- NETWORK +

SEKTOR7 February 2024 – March 2024

- MALWARE DEVELOPMENT

STANFORD ONLINE April 2023 – June 2023

- CRYPTOGRAPHY I

FORTINET February 2023 – February 2023

- NSE 2

- NSE 1

CAREER PATH

My career path centres on becoming a Security Engineer, with current focus on gaining hands-on experience in SOC and InfoSec roles.

I'm driven by my passion for information security, cryptography, and physics, aiming to secure systems across a broad spectrum of technologies.

PROFESSIONAL EXPERIENCE

Industry-Relevant Projects

Side-Channel Power Analysis on RSA – ChipWhisperer-Lite XMEGA

(March 2024 – May 2024)

Security Researcher

Scope: Side-channel attack analysis, cryptography, and key bit exploitation through power analysis.

- Executed targeted side-channel power analysis on RSA to analyse and derive key bits during encryption computation.
- Identified exploitable patterns in RSA's key bit usage by measuring power consumption during cryptographic computation.
- Enhanced power analysis techniques, precisely measuring computational power fluctuations, deriving key insights into RSA encryption weaknesses.

Cyber Range Infrastructure Project Lead – GELOS

(July 2023 – November 2023)

Cybersecurity Infrastructure Engineer

Scope: Cyber range infrastructure, secure network design, IDS/IPS, and SIEM system integration.

- Engineered and co-led the deployment of a virtualized cyber range infrastructure,
- Implementing Secure network design, utilizing access control mechanisms, DMZ, and Deperimeterization.
- Integration of IDS/IPS & SIEM systems with custom rulesets to prevent threats according to trends and security policy.

Digital Forensics Consultant - Red Opal Initiative

(March 2023 – June 2023)

Digital Forensic Analyst

Scope: Digital forensic investigations, policy creation, and report generation for stakeholders.

- Managed and executed detailed digital forensic investigations, focusing on the collection and analysis of electronic data.
- Emphasized the importance of policy creation, ensuring procedures and protocols are followed during forensic investigations.
- Compiled comprehensive reports and conducted presentations for stakeholders, detailing findings, and insights from forensic data analysis.

Cybersecurity Compliance and Intellectual Property – GELOS

(May 2023 – September 2023)

Information Security Officer

Scope: Cybersecurity legal compliance, intellectual property protection, and IAM processes.

- Conducted thorough evaluations of cybersecurity compliance in alignment with Australian legal standards and requirements.
- Administered and protected intellectual property rights, maintaining a high standard of confidentiality during stakeholder interactions.
- Utilized Active Directory for streamlined Identity and Access Management (IAM) processes, enhancing organizational security and efficiency.

PERSONEL REFERENCES

References available upon request