DEVA SANJEEWAN

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EXECUTIVE SUMMARY

Security-minded network engineer and cloud practitioner with hands-on experience in firewall configuration (Palo Alto, pfSense), Linux administration, AWS EC2, Python automation, and IDS/IPS fundamentals. Currently designing a transparent inline security engine (Veltron) for industrial IoT networks, demonstrating applied skills in network security monitoring, access control, and threat inspection. Fortinet-certified with a strong academic foundation in cloud security, positioned to contribute immediately as a Junior Network Security Engineer, Cloud Security Analyst, or SOC Analyst.

CORE COMPETENCIES

- Firewall Configuration & Management (Palo Alto, pfSense)
- Network Security Monitoring & IDS/IPS Concepts
- Cloud Security (AWS VPC, IAM, Security Groups, CloudTrail, EC2)
- SIEM Deployment & Alert Triage (Wazuh)
- Security Policy Design & Access Control
- Python Scripting & Security Automation
- Incident Response & SOC Workflows
- Routing Protocols & Network Segmentation (OSPF, ACLs, VPN)
- Industrial IoT Network Security (Modbus, MQTT)
- Vulnerability Assessment & Cybersecurity Best Practices

TECHNICAL SKILLS

Network Security: Palo Alto Firewall (security policies, NAT, rules, zones), pfSense, IDS/IPS (concepts & deployment), OSPF routing, VPN, WAF, ACLs, Wireshark (packet analysis), network troubleshooting, traffic inspection (Modbus, MQTT)

Cloud & Infrastructure: AWS EC2, AWS VPC, AWS IAM (least-privilege roles & policies), AWS Security Groups, AWS CloudTrail, Linux administration (Ubuntu Server, Kali Linux), web server self-hosting, SSH, system hardening

Security Operations: SIEM (Wazuh), log analysis, alert triage, incident response, SOC workflows, access control, authentication protocols, policy validation and testing

Programming & Automation: Python (security tooling, automation, data applications), C, SQL, HTML/CSS

Tools & Platforms: Git, GitHub, GNS3, Visual Studio Code, Wireshark, Kali Linux toolset

Databases: SQL Server, structured data management

PROJECTS

Veltron Transparent Inline IoT Security Engine | *Top-Up Final Year Project* 2026 – Present

- Architected a transparent inline security engine to inspect and filter Modbus and MQTT traffic between industrial IoT gateways and sensor switches, enforcing protocol-level access control and reducing the network attack surface.
- Executed full project lifecycle independently requirements analysis, system design, feature implementation, and testing delivering a functional IDS-style inspection layer aligned with industrial cybersecurity principles (IEC 62443 context).
- Authored comprehensive technical documentation covering architecture, threat model, test results, and deployment procedures, enabling repeatable validation of security controls.

Palo Alto Firewall Lab | *Independent Configuration Project* Ongoing

- Configured Palo Alto firewall security zones, policy rules, NAT policies, and inter-zone access controls from scratch, replicating enterprise-grade network segmentation patterns in a simulated multi-device topology.
- Diagnosed and resolved firewall connectivity and NAT traversal issues using packet capture analysis and session table inspection, strengthening systematic troubleshooting methodology applicable to SOC and network security roles.
- Validated security policy enforcement by executing controlled test scenarios and confirming that unauthorized traffic was blocked at policy boundaries as intended.
- Built a GNS3 multi-router topology to simulate OSPF routing and validate firewall policy behaviour across network segments tested inter-zone ACLs and confirmed routing table convergence.

AWS Cloud Security Lab (Free Tier) | *Independent Cloud Security Project* 2025 – Present

- Configured a VPC with custom Security Groups applying least-privilege inbound/outbound rules, enforcing network-level access control across cloud resources.
- Created IAM roles with least-privilege policies and enabled CloudTrail logging for full audit trail visibility across AWS API activity.
- Validated cloud security posture by reviewing CloudTrail logs for unauthorized API calls, demonstrating practical cloud security monitoring and investigation technique.

Institute Management System | *C Application* 2024 – 2025

- Engineered a C-based institute management system with structured record handling, demonstrating systems-level programming capability and application of data organization principles.
- Contributed front-end development for a Patient Records Management solution using HTML and CSS, delivering a functional, structured UI for clinical data entry.

EDUCATION

BEng Hons Computer Networking and Cloud Security (Top-Up)

London Metropolitan University at ESU, Kandy 2026 – Present

Specialisation: cloud security architecture, network defence, and security operations.

HND Network Engineering and Computing

London Metropolitan University at ESU, Kandy 2023 – 2026

Core modules: routing & switching, network security, Linux systems, cloud computing, programming.

G.C.E. Advanced Level (Combined Maths, Physics, ICT)

Trinity College, Kandy

G.C.E. Ordinary Level

Rajawella Hindu National School

Distinctions: Mathematics, Science, ICT, History, Religion, Sinhala, Arts. Credits: English, Tamil.

CERTIFICATIONS

- Fortinet NSE 1 & NSE 2 Network Security Associate
- Fortinet Certified Fundamentals in Cybersecurity
- Cisco Introduction to Cybersecurity

PROFESSIONAL ATTRIBUTES

• Analytical Problem-Solving • Technical Documentation • Independent Project Ownership • Team Collaboration • Adaptability Under Complexity • Effective Communication • Leadership