



VEEKAASH MAGESPARAN

Cybersecurity Undergraduate

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[Internship Availability: 3 August 2026 – 25 October 2026]

PROFESSIONAL SUMMARY

Cybersecurity undergraduate at Multimedia University seeking an internship in SOC, network security, or IT security operations. My Final Year Project focuses on cyberattack detection in smart home and IoT environments, building practical skills in network traffic analysis and anomaly detection relevant to SOC work. Hands-on experience with Kali Linux, Cisco Packet Tracer, and IT systems from a previous internship in hardware support. Motivated to apply classroom knowledge in a real-world security environment and grow under an experienced team.

EDUCATION

Bachelor of Computer Science (Hons.) — Cybersecurity

2024 – 2026

Multimedia University, Cyberjaya CGPA: 3.5

Diploma in Information Technology

2021 – 2023

Multimedia University, Cyberjaya CGPA: 3.02

WORK EXPERIENCE

IT Hardware & Support Intern | Fixmaster IT Distributors Sdn Bhd

Aug 2023 – Oct 2023

- Repaired and upgraded hardware components (SSD, RAM, screens, motherboards) across 50+ client units.
- Deployed and cloned 100+ systems using Clonezilla for bulk corporate refurbishing setups.
- Installed and configured Windows OS, Microsoft Office, and enterprise tools including Power BI.
- Performed full QA testing cycles covering battery health, port functionality, and stress tests.
- Managed BIOS unlocking for corporate device refurbishment, ensuring compliance with client specs.
- Mentored junior interns on hardware diagnostics and repair procedures.

PROJECTS

Cyberattack Detection in Smart Home & IoT Environments — Degree Final Year Project | 2024 – Present

- Designed and implemented an Adaptive Hybrid Intrusion Detection System (AHIDS) combining Signature based detection, Random Forest, and Incremental SGD through majority vote fusion for real time threat detection in IoT and smart home environments.
- Preprocessed and analysed the TON-IoT dataset, covering telemetry from seven heterogeneous smart home and industrial IoT devices, including cleaning, encoding, and feature scaling.
- Built a six phase detection pipeline with chronological batch simulation (560 batches) to realistically emulate live IoT traffic and enable time aware model evaluation.
- Implemented performance based concept drift monitoring, detecting 50 drift events across the evaluation period and validating the need for continuous adaptive learning.
- Benchmarked the Hybrid IDS against standalone models, achieving 96.42% accuracy, 93.37% precision, 99.39% recall, and a 96.29% F1-score, while maintaining a lightweight resource footprint (16.20% CPU, 162.52 MB memory).

Goldbell Fashion — E-Commerce Website — Diploma Final Year Project

- Built a full-stack e-commerce platform with product management, user authentication, and CRUD operations using PHP, HTML, CSS, and MySQL.
- Implemented secure login and registration with database validation and session management.
- Designed responsive UI/UX layouts for improved usability across desktop and mobile devices.

- Managed product inventory and customer data through MySQL relational database integration.

TECHNICAL SKILLS

Programming & Web: Python, Java, C++, PHP, JavaScript, HTML, CSS

Cybersecurity: Network Security, Intrusion Detection Systems (IDS), IoT Security, Network Traffic Analysis, Cyberattack Detection, OSINT, Basic Penetration Testing

Databases & Tools: MySQL, GitHub, Kali Linux, Cisco Packet Tracer, VMware, VirtualBox, XAMPP, Clonezilla, VS Code

Cloud & Virtualisation: AWS Fundamentals, Cloud Computing, VMware Workstation, VirtualBox

Hardware & IT Support: Laptop/Desktop Repair, Hardware Diagnostics, SSD & RAM Upgrades, Motherboard Replacement, BIOS Configuration, System Deployment, Windows Installation

CERTIFICATIONS

- Cybersecurity Fundamentals — Palo Alto Networks (May 2026)
- Network Security Fundamentals — Palo Alto Networks (May 2026)
- Cloud Security Fundamentals — Palo Alto Networks (May 2026)
- Security Operations Fundamentals — Palo Alto Networks (May 2026)
- Endpoint Security — Palo Alto Networks (May 2026)
- HCIA-AI V4.0 Course — Huawei (Jan 2026)
- C++ Programming — Sololearn (Nov 2022)

LANGUAGES

English • Bahasa Malaysia • Tamil