

# Jeffin Thomas Valliyakalayil

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[LinkedIn](#) | [Portfolio](#)

## SUMMARY

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Motivated IT professional pursuing Master of Information Technology (Cybersecurity) at Monash University, with hands-on experience in network engineering, cloud solutions, and security assessment. Skilled in Cisco networking (CCNP/CCNA), Linux administration (RHCE), and AWS cloud architecture. Demonstrated ability to design secure network infrastructures, conduct penetration testing, and troubleshoot complex connectivity issues. Seeking opportunities to apply technical expertise in cybersecurity and network engineering roles.

## TECHNICAL SKILLS

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**Networking:** Cisco Routing & Switching, OSPF, EIGRP, BGP, VLANs, VPNs, WAN Technologies, Network Troubleshooting, Firewall Configuration, LAN/WAN Management

**Security:** Penetration Testing (OWASP ZAP, Nikto, Nmap), Vulnerability Assessment, IDS/IPS, Security Auditing, OWASP Top 10, Network Security, Access Control

**Cloud & Systems:** AWS (EC2, VPC, IAM, S3), Linux Administration (RedHat), Shell Scripting, Server Configuration, High-Availability Solutions

**Development:** Android Development, Java, Bluetooth Low Energy (BLE), Web Development, SQL, API Security

## EDUCATION

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### MONASH UNIVERSITY, MELBOURNE, VIC.

Feb-2024 — Dec 2025

Master of Information Technology, Major: Cybersecurity

- **Courses:** Network Security, Penetration Testing, Security Assessment, Cloud Security, Secure Software Development

### KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES, COIMBATORE

June 2019 — May 2023

Bachelor of Technology in Computer Science and Engineering — GPA: 6.35/10

- **Courses:** Data Structures, Algorithms, Database Management, Computer Networks, Operating Systems, Mobile Application Development

## EXPERIENCE

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### SOFTEN TECHNOLOGIES

Jul 2023 — Dec 2023

Network Engineer India.

- Installed, maintained, and upgraded network hardware and software including switches, routers, and firewalls to ensure reliable connectivity.
- Monitored network performance and resolved downtime issues, providing technical support for LAN, WAN, and VPN connections.
- Ensured network security through regular updates, access control implementation, and firewall configuration.
- Assisted in server setup, configuration, and maintenance while documenting network configurations and preparing status reports.
- Provided end-user support for connectivity and system issues, contributing to team-based troubleshooting projects.

## PROJECT WORK

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### SENIOR LIFELONG LEARNING PLATFORM — WEB DEVELOPMENT & SECURITY ASSESSMENT

Aug 2024 — Nov 2025

Graduate Researcher - Monash University, Australia

- Developed a web platform dedicated to lifelong learning for older Australians (60+), providing digital literacy guides, community program information, and health/wellness education resources.
- Designed accessible UI targeting seniors facing barriers such as low digital literacy, limited transport access, and health conditions, aggregating resources from government, libraries, TAFE, and community centers.
- Developed and executed comprehensive security plan addressing SQL Injection, XSS, CSRF, API security, authentication weaknesses, and data storage vulnerabilities.
- Conducted penetration testing using OWASP ZAP (automated vulnerability scanning), Nikto (web server scanning), and Nmap (network reconnaissance) following non-intrusive methodology.
- Implemented security controls including TLS/SSL configuration, security headers, access controls, and baseline logging/monitoring, mapping all findings to OWASP Top 10 framework.

## **INDOOR POSITIONING SYSTEM USING BLUETOOTH LOW ENERGY BEACONS**

**Aug 2022 — May 2023**

Undergraduate Researcher - Karunya Institute of Technology and Sciences, India

- Developed an indoor navigation system using BLE beacons for GPS-denied environments such as airports, parking lots, skyscrapers, and underground locations.
- Built Android mobile application that reads RSSI (Received Signal Strength Indicator) values from BLE beacons and applies Kalman filter for signal smoothing.
- Implemented trilateration algorithm using three reference beacon positions to calculate user location, achieving room-level positioning accuracy.
- Integrated Dijkstra's shortest path algorithm to compute optimal navigation routes between source and destination points on indoor maps.
- Co-authored IEEE research paper documenting system architecture, BLE signal characteristic analysis, position estimation methodology, and experimental results.

## **CERTIFICATIONS**

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- Cisco Certified Network Professional (CCNP) — Advanced Routing, Switching, WAN Technologies, Network Optimization
- CCNA Enterprise — IP Addressing, Subnetting, Routing Protocols (OSPF, EIGRP, BGP), Network Security Fundamentals
- AWS Solutions Architect — Associate — Cloud Architecture Design, VPC, IAM, Cost Optimization, High-Availability Solutions
- RedHat Certified Engineer (RHCE) — Linux System Administration, Shell Scripting, Enterprise Server Configuration
- Cyber Security Training Program — Network Security, Vulnerability Assessment, Penetration Testing, Security Policies
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## **ADDITIONAL INFORMATION**

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- Actively participated in hands-on networking labs, security workshops, and penetration testing simulations.
- Engaged in cybersecurity awareness initiatives and contributed to team-based security audit projects.
- Work Authorization: Student Visa with work rights in Australia.