

Sarker Ayan Malik

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Summery

Passionate and detail-oriented Information Technology student specializing in Networking and Security, with hands-on experience in network configuration, system administration, and cloud technologies. Adept at troubleshooting, collaborating in technical teams, and applying analytical skills to real-world problems. Committed to developing secure and efficient IT solutions through continuous learning and innovation.

Education

Bachelor of Information Technology (Networking & Security)

Federation University Australia | Feb 2023 – Nov 2025

Relevant Coursework:

Network Design & Architecture · Cloud & Enterprise Computing · Cybersecurity · Data Analytics · IT Project Management · Agile Software Development

Technical Skills

Networking: Cisco Routing & Switching · VLANs · ACLs · NAT · Subnetting · Wireshark · Packet Tracer

Cloud Platforms: AWS (VPC, EC2, RDS, S3, IAM) · Cloud Security · High-Availability Architecture

Security: STRIDE Threat Modelling · Firewall Configuration · SMBv3 Protocols · Access Control · Encryption Standards

Programming & Data: Java · Python · SQL · MongoDB · Neo4j · Data Mining (Weka) · MySQL Workbench

Tools & Systems: Git & GitHub · Windows Server · Linux · VS Code · Microsoft Excel

Soft Skills: Communication · Team Leadership · Analytical Thinking · Customer Relationship Management

PROJECT EXPERIENCE

AWS Cloud Architecture & Security

- Designed and deployed a multi-tier AWS environment with VPCs, EC2 instances, RDS databases, and IAM policies.
- Configured public/private subnets, security groups, and high-availability architecture ensuring secure and scalable data access.

Cloud Security Implementation

- Applied STRIDE threat modelling to identify and mitigate vulnerabilities in IoT cloud systems.
- Deployed Windows Server EC2 instances, enabled secure SMBv3 file sharing, and configured firewall and access controls.

Building Job Management System – Java

- Developed an object-oriented Java desktop application for managing construction projects and cost estimation.
- Implemented GUI interfaces, file handling, and JUnit testing, maintaining version control with GitHub.

University Enrollment Database – SQL

- Built a relational database using SQL with ERD design, normalization, and advanced data queries.
- Enhanced data accuracy and reporting efficiency for student and course management.

Data Mining & Analytics – Glass Identification Dataset

- Analyzed the Glass dataset using Weka decision-tree algorithms achieving 99% model accuracy.

- Strengthened understanding of data preprocessing, pattern recognition, and model evaluation.

NoSQL OSINT Environmental Analysis System

- Designed a MongoDB and Neo4j-based intelligence system for analyzing global environmental data.
- Utilized ACH (Analysis of Competing Hypotheses) to identify and visualize complex data relationships.

EXPERIENCE

Network Engineer Intern | Nazmec | June 2025- Present

- Supported the design and configuration of LAN/WAN infrastructures using Cisco routers and switches.
- Assisted in deploying secure, multi-tier AWS cloud environments including VPC and EC2 management.
- Performed network monitoring and traffic analysis to identify and troubleshoot connectivity issues.
- Contributed to security vulnerability assessments and threat modeling within an Agile team environment.

App Development (iOS & Android) – Backend Developer | Federation University | Mar 2025 – Dec-2025

- Built a cross-platform mobile app using React Native + Expo with Supabase backend for authentication and database.
- Focused on API development, integration, and performance optimization.
- Collaborated in Agile sprints, contributing to code reviews and deployment testing.

SIEM Implementation & Threat Detection – Personal Project | Jan 2025 – Dec 2025

- Configured a SIEM platform for log forwarding from Linux & Windows systems.
- Created custom alerts and dashboards to detect anomalies and generate threat reports.
- Developed an incident response plan aligned with security best practices.

Network Design & Configuration – Cisco Packet Tracer | Jan 2024 – Nov 2025

- Designed a LAN topology with VLANs, inter-VLAN routing, and ACLs.
- Troubleshooted connectivity issues and optimized routing for network efficiency and access control.

EXTRA CURRICULAR WORK EXPERIENCE

Sales Representative – Guzman y Gomez, Bondi Junction | Aug 2023 – Present

- Delivered excellent customer service in high-volume operations, managing orders efficiently.
- Trained and supported new team members, strengthening teamwork and leadership skills.

Barista – Tella Bells Café, Sydney | Apr 2023 – Jun 2023

- Prepared high-quality beverages with consistency and precision, maintaining customer satisfaction.

CERTIFICATIONS & ACHIEVEMENTS

- **AWS Academy Graduate** – Introduction to Cloud Computing
- **Cisco Networking Essentials** – Routing & Switching Fundamentals
- **Python (Basic)** – HackerRank | **RSA Certified**
- **Certificate of Academic Excellence** – Federation University

MY OBJECTIVE

To have an opportunity to work as an entry level IT or Network Support Engineer in the field where I could use my knowledge related to networking, cloud computing, and the issues related to cybersecurity to provide secure, scalable, innovative IT solutions and keep growing my technical competencies.