

MUHAMMAD IRFAN BIN RIZAL

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SUMMARY

Cloud Computing & Application student at Universiti Teknikal Malaysia Melaka with hands-on expertise in AWS cloud security, network infrastructure, and full-stack development. Holder of AWS Academy Cloud Security Builder and multiple Cisco cybersecurity credentials, with 7+ end-to-end projects spanning serverless AWS architecture, enterprise XDR platforms, and Islamic fintech. Recognised as Gold Medalist at i-CPROM 2023 (UiTM Perlis) for excellence in IT innovation. Currently building toward a career in cloud security and infrastructure engineering, with real-world experience from a 6-month IT internship at Port Klang Cruise Terminal and an active faculty technical support role.

EDUCATION

Universiti Teknikal Malaysia Melaka (UTeM) Bachelor of Technology in Cloud Computing and Application (Honours) • CGPA: 3.22	<i>Melaka, Malaysia</i> 2024 – Present
Kolej Vokasional Besut Diploma of Information Technology • CGPA: 3.55 • MUET: Band 3.5	<i>Terengganu, Malaysia</i> 2022 – 2024
Kolej Vokasional Besut Sijil Vokasional Malaysia — Computer & Network Services (Level 3) • CGPA: 3.52	<i>Terengganu, Malaysia</i> 2020 – 2022

EXPERIENCE

Fakulti Teknologi Maklumat dan Komunikasi (FTMK), UTeM Technical Associate (Rakan Teknikal)	<i>Melaka, Malaysia</i> Jan 2025 – Present
• Delivered rapid on-site hardware and software troubleshooting for 200+ faculty and student users across laboratory environments. • Configured projectors, sound systems, and live-streaming equipment for 10+ hybrid faculty events with zero technical failures. • Served as official event photographer and videographer; produced and edited promotional content for faculty social media channels. • Supported faculty digital infrastructure including computer lab maintenance and network connectivity checks.	
Port Klang Cruise Terminal Sdn Bhd IT Intern	<i>Port Klang, Selangor</i> Apr 2024 – Sep 2024
• Executed routine system health checks and hardware/software verification across 50+ enterprise workstations, significantly reducing operational downtime. • Assisted lead engineer in upgrading 20+ PoE switches and optimizing LAN/WAN infrastructure, improving overall network stability. • Performed preventive maintenance and troubleshooting for 30+ CCTV cameras, ensuring 100% continuous surveillance coverage. • Audited 200+ IT assets and implemented lifecycle tracking system achieving 100% documentation compliance. • Prepared technical quotations for network components and evaluated vendor proposals for cost-effectiveness.	

KEY PROJECTS

Niyah — Islamic Super App	<i>React, Next.js, Supabase, TailwindCSS</i>
• Developed a fullstack Islamic super app for Muslim Malaysians, with dedicated focus on mualaf (new converts) and warga emas (senior citizens). • Features: Al-Quran with audio recitation, JAKIM-integrated prayer times, Muallaf Hub community support, and Zakat Calculator. • Production-grade fullstack architecture using React, Next.js, Supabase (real-time database & auth), and TailwindCSS.	

MindCare Malaysia — Student Mental Health Platform

HTML5, CSS3, JavaScript, Chart.js

- Built a comprehensive student mental health web platform: Mood Tracker, Journal, Medication Manager, Meditation Timer, Breathing Exercises, Crisis Resources, and Admin Panel.
- Implemented using vanilla HTML5, CSS3, and JavaScript with Chart.js — fully responsive, designed for Malaysian university students.

SmartChef — AWS Serverless Architecture

AWS Lambda, API Gateway, DynamoDB, Python

- Architected an intelligent recipe recommendation engine on AWS serverless infrastructure with Python backend for real-time data processing.

Threat Nexus XDR — Enterprise Cloud Cybersecurity Platform

Cloud Security, SIEM/SOAR

- Designed an enterprise-grade XDR platform with incident response workflows, threat dashboards, and automated remediation pipelines.
- Demonstrates applied cloud security architecture knowledge including SIEM/SOAR integration and security operations thinking.

WiFi Management System

Final Year Project — Team Leader

- Led a team to build a real-time network traffic monitoring system with advanced load balancing, encrypted user authentication, and an interactive admin dashboard for bandwidth and device management.

URL Phishing Awareness Tool

Cybersecurity Education

- Developed an educational browser tool detecting suspicious URL patterns (IP addresses, fake domains, missing HTTPS, URL shorteners) to promote safer browsing habits.

NeuroNote

C++, MySQL — Workshop 1

- Developed a C++ and MySQL data logging system to track user wellness metrics and daily activities with persistent database storage.
- Implemented structured file and database management enabling reliable longitudinal tracking of health and productivity indicators.

LEADERSHIP & INVOLVEMENT

i-CPROM 2023 (UiTM Perlis)

Gold Medalist — International IT Innovation Competition

Chairman

Mobile Legends Tournament – KV Besut (2024)

Chairman

Volleyball Championship – KV Besut (2024)

Chairman

iTech Club – KV Besut

Protocol & Technical Committee

Program CEO Campus, UTeM (2025) — managed VIP protocol and AV setups

Safety Secretariat

FTMK Programs (2025)

Technical Associate (Rakan Teknikal)

FTMK UTeM (2025–Present)

Handball Representative

FTMK SAF Ke-19 (2025)

Volunteer

TVET State & National Programs (2023–2025)

Participant

Cloud Challenge DTC (2026) & UniPlay (2026)

Security Committee Member

Career Path Club (2025)

CERTIFICATIONS & PROFESSIONAL TRAINING

AWS Academy	Cloud Security Builder (2026) Cloud Security Foundations (2026) Cloud Foundations (2025)
Oracle	Cloud Infrastructure 2025 Certified Foundations Associate (2026) Fusion AI Agent Studio Certified Foundations Associate (2026)
Cisco	Network Defense (2025) Junior Cybersecurity Analyst Career Path (2024) Endpoint Security (2024) CCNA — Introduction to Networks (2023) Ethical Hacker (2023) Cyber Threat Management (2023)
Google	Workspace Tools & Data Analysis (2025)
Other	RunCloud: Cloud Computing Fundamentals (2024) MyDIGITAL & Intel: AI Appreciate & Aware (2024) JPK: SKM Computer Network Services Level 3 (2023)

SKILLS & INTERESTS

Cloud & Infrastructure: AWS (Lambda, API Gateway, DynamoDB, IAM, S3, EC2, GuardDuty, CloudTrail, Security Hub), OpenStack, Docker, Serverless, Virtualization

Security: Network Defense, Ethical Hacking, XDR, Endpoint Security, Cyber Threat Management, Phishing Detection, SIEM/SOAR (foundational)

Networking: CCNA, LAN/WAN, PoE Switches, Load Balancing, VPN, Firewall Configuration, Intrusion Prevention

Programming: Python (Flask, FastAPI), JavaScript, React, Next.js, C++, PHP, HTML/CSS, TailwindCSS, Chart.js, SQL, MySQL

IT Operations: Linux & Windows OS, Server Maintenance, CCTV Systems, IT Asset Management & Auditing, AV Systems

Tools & DevOps: Git, GitHub, Docker, Supabase, RunCloud, Google Workspace, VS Code

Language: Malay (Native), English (Proficient — MUET Band 3.5)

Interests: Cloud security research, Islamic fintech, esports event management, photography & videography