



MOHAMMAD HAFIZ BIN MOHAN

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PROFILE

Final-year Bachelor of Computer Science (Software Engineering) student at Universiti Malaysia Sabah with Honours, seeking a 24-week internship from **16 March 2026 to 28 August 2026**. Proficient in full-stack web development (**Laravel/PHP**), native Android development (**Kotlin**), and IoT integration (**Python/Raspberry Pi**). Passionate about **secure software engineering**, actively upskilling in **Ethical Hacking** and currently pursuing the **Certified Cybersecurity Professional** credential from Axsell Management. Proven leadership ability through academic project management. **Eager to apply technical skills in a Software Development, Web Development, or Cybersecurity Operations role.**

EDUCATION

Universiti Malaysia Sabah (UMS), Kota Kinabalu

Bachelor's in Computer Science (Software Engineering) with Honours

Oct 2022 - Present

Universiti Malaysia Sabah (UMS), Kota Kinabalu

Foundation in Information Technology, CGPA : 3.86

July 2021 - July 2022

TECHNICAL SKILLS

- **Languages:** PHP, Java, C/C++, C#, Python, Kotlin, JavaScript, SQL.
- **Web Frameworks:** Laravel, Tailwind CSS, HTML5, CSS3.
- **Tools & Platforms:** Git/GitHub, Docker, Unity.
- **Hardware/IoT:** Raspberry Pi, GPIO Programming.
- **Operating Systems:** Linux (Daily Driver: Arch/Manjaro, Kali, Ubuntu), Windows.
- **Cybersecurity:** Metasploit Framework, Kali Linux, Social Engineering, Reverse Engineering.

PROJECTS

MyCareX: Personal Health Record Management System | Web-Based System (Laravel, Tailwind CSS, MySQL)

- Developing a web-based Personal Health Record (PHR) system as a Final Year Project to solve data interoperability issues in the Malaysian healthcare ecosystem.
- Engineered a secure portal allowing patients to retrieve and manage their own medical records, reducing redundancy in medical testing.
- Implemented role-based access control (RBAC) to ensure data privacy and security for sensitive patient information.

Tunku Abdul Rahman (TAR) Marine Park System | Web-Based System (PHP, HTML5, CSS, Javascript, MySQL)

- **Role:** Team Leader & Full Stack Developer
- Led a development team to build a centralised tourism booking management system for 5 islands within the TAR Marine Park, handling real-time booking slots.

IoT SmartLock System | Internet of Things (IoT) (Python, Raspberry Pi)

- **Role:** Main Programmer & IoT Developer
- Developed a SmartLock system involving face recognition on the door for a smart locking system using Raspberry Pi and Python.
- Programmed real-time image processing scripts to authenticate users and trigger hardware locking mechanisms.

K' Supermarket Point of Sale (POS) System | Mobile Application (Kotlin)

- **Role:** Team Leader & Main Programmer
- Developed a native Android application to streamline supermarket checkout processes.
- Programmed the core backend logic for calculating sales totals, processing payments, and generating digital receipts.

Custom 2D Graphics Engine | Game Engine (C++, OpenGL)

- **Role:** Engine Programmer
- Developed a fully functional 2D rendering engine from scratch, applying linear algebra (vectors, geometry) for object transformations and physics.
- Demonstrated strong Object-Oriented Programming (OOP) by designing a modular system with classes for rendering, collision detection, and user input.

Monster World AR Application | Mobile Application (C#, Unity, Vuforia Engine)

- **Role:** Feature Developer (AR Texturing)
- Created an interactive Augmented Reality (AR) application where 2D hand-colored drawings are scanned and rendered as 3D models in real-time.
- Utilised Vuforia image target recognition technology to bridge the physical and digital worlds for educational gamification.

ACTIVITIES AND INVOLVEMENT

- Team Leader, NextG GodamLah 2.0 (MyKad Hackathon) | Kolaxus & NextG (Upcoming Competition), 2025
- Participant, BorneoHackathon | Universiti Malaysia Sabah (UMS) & MDEC, 2025
- 3rd Place, CyberHunt Competition | Universiti Malaysia Sabah (UMS), 2023
- Participant, RoboNeo Capture The Flag (CTF) | Roboneo, 2022
- Top 5 Place with consolation prize, National Coding Competition | Ministry of Education, 2020

CERTIFICATIONS

- Certified Cybersecurity Professional from Axsol Management (Expected Dec 2025), 2025
- Cisco Cybersecurity Essentials from Cisco Networking Academy (In Progress), 2025
- Cisco Network Fundamentals from Cisco Networking Academy, 2023

REFERENCE

DR. SITI HASNAH BINTI TANALOL

Senior Lecturer (Final Year Project Supervisor)
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