



MOHAMMAD HAMKA IZZUDDIN BIN MOHAMAD YAHYA

Aspiring Software Engineer with skills in software development, cloud computing, and IT, passionate about emerging tech.

Software Engineering | Cybersecurity | Cloud Computing | Agile Scrum

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My Portfolio

PERSONAL SUMMARY

Software Engineering graduate with strong skills in PHP, web development, and system design, passionate about building practical software solutions that support business and operational needs. Experienced in developing full-stack web applications, database design, system testing, and deployment. Strong team collaborator with a proactive mindset, eager to contribute to high-impact digital solutions and continuously improve system performance and user experience.

EDUCATION

Universiti Malaysia Sarawak (UNIMAS)

2020 - 2024

Bachelor's Degree of Computer Science with Honours (Software Engineering)

CGPA: 3.65

- **Scholarship:** Yayasan Sarawak Tun Taib Scholarship (BYSTT) Recipient.
- **Publication:** "Enhancing IIoT Security: AI-Driven Blockchain-Based Authentication Scheme" in International Journal of Computer Science & Technology (2024).

PROFESSIONAL EXPERIENCE

Metrology Manufacturing (MTM) Trainee at X-FAB Sarawak (2025)

- Contributed to high-precision metrology measurements and calibration support at X-FAB production, ensuring semiconductor wafers met strict specifications for thickness, overlay, and critical dimensions in compliance with manufacturing quality standards.

SOC Analyst for Cyber Security & Risk Management at Sarawak Energy Berhad (2023)

- Monitored and triaged security alerts in Splunk Enterprise Security (SIEM), analyzing 10,000+ logs per week to detect threats and anomalies.
- Performed initial incident investigations through log analysis, endpoint review, and threat intelligence checks, documenting cases and escalating confirmed incidents via the ticketing system.
- Strengthened SOC operations by developing 50+ SIEM use cases, tuning detection rules and dashboards, and supporting cyber risk monitoring and security awareness initiatives.

PROJECT EXPERIENCE

Price Checker System based on Student Budget, Final Year Project (2023- 2024)

- Developed an intuitive web-based system to compare item prices from two selected stores using the **Waterfall methodology**.
- Designed student and admin interfaces supporting price comparison, forums, reviews, wishlists, and admin tools for user activity, moderation, and review management.
- Enhanced system functionality and usability to provide a seamless and responsive user experience.

Planning, Support Manager & Head Developer, Ultimate Athletic Gym Management System (2022 - 2023)

- Led the system's SDLC development, aligning admin and customer functionalities with client requirements.
- Supported project execution by coordinating task delegation, conducting extensive debugging, and managing stakeholder communications.
- Managed **testing phases**, including unit, integration, and user acceptance, to validate system functionality, performance, and security, overseeing comprehensive **testing and debugging**.
- Prepared final deliverables including **deployment packages**, **technical documentation**, and user manuals.
- Contributed to **planning strategies** and issue resolution to ensure on-time delivery of quality results.

Project Manager, Arngren E-commerce System (2021)

- Led the development of an e-commerce system from the ground up using full-stack technologies, excluding pre-built frameworks, focusing on enhancing both visual and functional aspects. Applied user experience principles to design a modern, engaging interface that improved system performance and user satisfaction.
- Monitored project **progress** to ensure compliance with user and software requirements, **focusing on visual design principles** to deliver an engaging user experience. Coordinated the team, managed timelines, and resolved issues, resulting in improved system performance and user satisfaction.

EXTRACURRICULAR ACTIVITIES

LEADERSHIP ROLES

Head of Discipline and Protocol Unit, FCSIT Final Year Project Symposium (2024)

- Led secretariat operations, ensured smooth event execution, coordinated VIP services, and managed report writing.

Project Leader, Service Learning (SULAM) for Ayam Korea by Adelia’s Kitchen Community (2023/2024)

- Directed a team to produce a high-impact promotional video, delegated tasks effectively, and managed documentation portfolios.

Assistant Head of Logistics and Technical (LOGITEK) Unit for Minggu Aluan Pelajar (MAP) UNIMAS & Majlis Apresiasi MAP (2023)

- Supervised logistics, mentored Liaison Officers, and directed preparations for the appreciation dinner.

EXCO of Activities and Volunteerism, PERTEKMA, FCSIT, UNIMAS (2021 - 2023)

- Spearheaded multiple roles, including facilitator and protocol officer, driving the successful organization and execution of hybrid events.

VOLUNTEERING

Talk & Tour University Mentors Group with Telebort (2024)

- Volunteered as a Data Scientist, conducting impactful AI Education research and surveys to support school adoption.

FCSIT Research Open Day, Scavenger Hunt (2022)

- Coordinated and facilitated an engaging scavenger hunt and 3D printing demos for secondary schools.

MYBIOSEA “Together We Can” National Campaign (2022)

- Actively participated in beach cleanups and recycling initiatives to promote environmental conservation.

PROGRAMS/ ACTIVITIES

Petronas BeDigital Bootcamp Cohort #8 (2024)

- Completed an intensive two-week program, honing advanced skills in AI, Cybersecurity, HR, and Leadership.
- Collaborated with industry leaders, gaining market insights and applying digital skills to real-world projects, preparing for top-tier roles.

CERTIFICATIONS & SKILLS

Certifications:

- CompTIA Cloud Essentials+ (2024)
- Google Certificate (2023/24): IT Support | Cybersecurity | Data Analytics | Project Management
- Scrum Fundamentals (2023)

Technical Skills:

- **Programming Languages:** PHP, JavaScript, Python, C, C++
- **Web & Backend Development:** Laravel, Node.js, REST API, HTML, CSS, Bootstrap, Tailwind CSS
- **Database & Data Management:** MySQL, MariaDB, PostgreSQL, SQL, Database Design, System Integration
- **Software Development & Tools:** Git, GitHub, Linux, Shell (Bash), VS Code, Eclipse, CI/CD & Version Control
- **Testing & Documentation:** Unit Testing, System Testing, Integration Testing, Software Documentation
- **Development & IDEs:** Visual Studio Code, Eclipse, Notepad++, Sublime Text
- **Monitoring & Security:** Splunk, SIEM

Interpersonal Skills: Leadership and Teamwork, Project Management, Planning & Organizing, Effective Communication Skills, Flexible & Adaptability, Analytical & Critical Thinking, and Problem-solving

Language: Malay (Native), English (Proficient)

Interest: Reading, Technology, Fashion, Travelling, Football, History, Politics and World Affairs

REFERENCES

Chua Ai Lan

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Metrology Manufacturing (MTM)

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