

MUHAMMAD AKRAM ZAKI BIN AMRAN

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DESCRIPTION

Computer Science student specializing in **Information Security and Assurance**, with hands-on experience in **software engineering**, **cybersecurity**, and **SCADA system development** at **Willowglen Malaysia**. Certified in **CompTIA Tech+** and **Security+**, and a **MARA scholar** recognized for excellence in AI-driven and security-focused projects. Accomplished **CTF competitor** and **hackathon champion** with proven skills in **secure system design**, **automation**, and **cross-functional collaboration**. Passionate about building **innovative and resilient digital solutions** that integrate technology, security, and automation.

SKILLS

- **Software:**
 - Microsoft Office (Word, PowerPoint, Excel) – **Advanced**
 - Code Editor and Web Dev (VS Code, Eclipse IDE, Github, Xampp) - **Intermediate**
 - Programming Language (HTML, PHP, JAVA, C, C++, C#, Python, MySQL) – **Intermediate**
 - Operating System (Kali Linux, Parrot OS, Windows, Ubuntu) - **Intermediate**
 - Security Tools (Ghidra, JDAX, Nmap, Burpsuite, Wireshark, Metasploit) – **Intermediate**
 - Industry Automation (SCADA systems) – **Basic**
- **Soft skills:**
 - **Communication & Presentation Skills.**
 - Public speaking
 - Cross-cultural communication
 - Technical communication
 - **Leadership & Management.**
 - Team leadership
 - Project management
 - Mentorship
 - **Problem-Solving & Analytical Thinking.**
 - Critical thinking
 - Strategic planning
 - Creative problem-solving
 - **Collaboration & Teamwork**
 - Cross-functional collaboration
 - International cooperation
 - Peer collaboration
 - **Adaptability & Learning**
 - Continuous learning
 - Technology adaptation
 - Cultural adaptability
 - **Organization & Time Management**
 - Event planning and execution
 - Academic excellence while maintaining extracurricular activities
 - Balancing multiple leadership roles simultaneously
 - **Initiative & Drive**

- Self-motivation
 - Innovation
 - Professional development
- **Languages:** Malay (**Native**), English (**Full Professional Proficiency**) and Arabic (**Limited Working Proficiency**).
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CERTIFICATE

1. [CompTIA Tech+ \(2025\)](#)
 2. [CompTIA Security+ \(2025\)](#)
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WORKING EXPERIENCES

1. Willowglen Malaysia Sdn Bhd (Aug 2025 – Present)

Software Engineer, Project Software & Solution

- Developed and optimized software components within SCADA and Integrated Supervisory Control Systems (ISCS), focusing on system reliability and scalability.
- Implemented communication protocols such as REST API, WebSocket for exchanging information.
- Contributed to the design, configuration, and integration of system software architecture, ensuring seamless interaction between hardware and software layers.
- Supported testing, debugging, and deployment of software systems, improving system performance and operational stability.
- Collaborated with cross-functional teams to enhance automation processes and ensure alignment with project requirements and industry standards

2. Willowglen Malaysia Sdn Bhd (Feb 2025 – Aug 2025)

Project Software & Solution Trainee

- Designed and implemented automated systems to streamline operational workflows, reducing manual workload and improving organizational efficiency.
 - Conducted vulnerability assessments and provided strategic remediation recommendations with detailed risk analysis and business impact justifications.
 - Involved in the configuration, maintenance and testing of SCADA and Integrated Supervisory Control Systems (ISCS), leveraging protocols such as Modbus, IEC 60870-5-104 (IEC 104), and SNMP to ensure reliable communication between field devices and control systems.
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EDUCATION

Universiti Sains Islam Malaysia (USIM), Nilai (2021 – 2025)

Bachelor of Computer Science (Hons.) in Information Security and Assurance
CGPA : 3.59

Universiti Sains Islam Malaysia (USIM), Nilai (2020 – 2021)

Foundation in Science and Technology
CGPA 3.5

LEADERSHIP EXPERIENCE

- Designed the task for the competition AturKreatif'25 Capture the Flag (CTF) under ISAC. (2025)
- Bureau of Publicity and multimedia, USIM Debate Club 21/22, 22/23 and 23/24 session. (2021 – 2024)
- Deputy Director, Global Islamic Student Outreach (GISO): Discovering the Insights of Culture Tadabbur Alam di Bumi Vietnam. (2024)
- Leader of Publicity and multimedia, Global Islamic Student Outreach (GISO): Mencari Ibrah di

- Selatan Thailand. (2024)
 - Leader of Safety Unit, Global Islamic Student Outreach (GISO): Ilm and Ihsan in Formosa: Empowering Knowledge and Excellence, Taiwan. (2024)
 - Speaker in sharing sessions with students from Asia Eastern University of Science and Technology, Taiwan.
 - Mentor & Judge, HackINSAN, Universiti Sains Islam Malaysia (USIM). (2024)
 - Second Vice President, Student Secretariat of The Faculty of Science and Technology, SekreFaST 22/23 session, (USIM). (2022 – 2023)
 - Deputy Director, Faculty of Science and Technology (MAFaST) Awards Ceremony. (2022)
 - Director, Crew & Friends Appreciation Ceremony. (2022)
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PROJECT

1. TRAVEL BUDDY

Final Year Project (2024)

- Designed and developed an AI-powered travel website that generates personalized itineraries based on user preferences and publicly available data.
- Ensured compliance with the Personal Data Protection Act (PDPA) 2010 to uphold user privacy and security.

2. WEBWANDER

Advanced JAVA Project (2023)

- a. Created a dynamic travel website that delivers real-time information and insights for various destinations.
- b. Focused on intuitive UI and seamless integration of location-based data to support user trip planning.

3. Muamalat Interactive Game VR

Virtual Reality Gamification, Digital Innovation Creative Entrepreneurship (DICE'23) (2023)

- a. Designed and developed a virtual reality gameboard titled **Muamalat Interactive Game** using Unity, aimed at promoting engagement through immersive gamification.
- b. Integrated an AI-powered bot to simulate gameplay, providing players with dynamic challenges and an interactive learning experience.

4. SingLingo Solution

Microsoft ASEAN AI for Accessibility (AI4A) (2022)

- a. Developed an innovative accessibility tool that utilizes Natural Language Processing (NLP) and OpenCV to detect hand movements and deliver real-time translation of sign language.
 - b. Aimed to bridge communication gaps for the deaf and hard-of-hearing communities through seamless AI-driven interaction.
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ACHIEVEMENT

- **Second runner-up** in UTAR Intervarsity Capture the Flag (CTF). (2024)
- **Champion** in Microsoft AI for Accessibility Hackathon under **Microsoft**. (2024)
- **Champion** in Capture the Flag (CTF) under AturKreatif'24 USIM (2024)
- Received the **Dean's List Award** for the 6th semester. (2024)
- **Finalist** in Capture the Flag Inter– Universities'23 under Petronas. (2023)
- Awarded as **Top 4** in Curtin University Capture the Flag (CTF) (2023)
- Awarded as **Top 4** in iTREXC Capture the Flag (CTF) Universiti Islam Selangor. (2023)
- **Silver Award**, Mechasonic Iris Project, Malaysia Invention and Innovation Expo (2023)
- **Silver Award**, Virtual Reality Gamification, Muamalat Interactive Game, Digital Innovation Creative Entrepreneurship (DICE'23). (2023)
- **Gold Award**, Mechasonic Iris Project, ASEAN Innovative Science Environmental and Entrepreneur

- Fair. (2023)
 - Participated in 'UMHack' Hackathon Competition and created a website Artificial Intelligence (AI) based. (2023)
 - **Second runner-up** in Capture the Flag (CTF) AturKreatif Universiti Sains Islam Malaysia. (2022)
 - Received the **Dean's List Award** for the 2nd semester. (2022)
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REFERENCES

Prof Madya Dr. Sakinah binti Ali Pitchay

Professor Madya Lecturer DS54

Faculty of Science and Technology (FST)

Universiti Sains Islam Malaysia (USIM)

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Norjannah Hazali

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