



## 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.

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### 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**
- Framework (Spring Boot, .Net, Flutter, Flask)
- 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

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## **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 6<sup>th</sup> 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 2<sup>nd</sup> 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)

[sakinah.ali@usim.edu.my](mailto:sakinah.ali@usim.edu.my)

**YAP SIAO LOONG**

Manager - Project Software & Solutions

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