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).**

# CERTIFICATE

1. [**CompTIA Tech+ (2025)**](https://www.credly.com/badges/902d28d0-a133-40a7-a981-64d13f1c22eb/linked_in_profile)
2. [**CompTIA Security+ (2025)**](https://www.credly.com/badges/f0bb62a2-8494-4891-a683-fd4b4820a879/linked_in_profile)

# WORKING EXPERIENCES

## 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

## 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.

# 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)**

# 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.

1. **WEBWANDER**

***Advanced JAVA Project (2023)***

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

1. **Muamalat Interactive Game VR**

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

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

1. **SingLingo Solution**

***Microsoft ASEAN AI for Accessibility (AI4A) (2022)***

* 1. 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.
  2. Aimed to bridge communication gaps for the deaf and hard-of-hearing communities through seamless AI-driven interaction.

# 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)**

# 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)

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