MUHAMMAD HARITH BIN HAIRUDDIN

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OBJECTIVE

I am actively pursuing a career in cloud engineering, aiming to secure a position that enables me to apply my robust leadership skills and exceptional problem-solving capabilities to make meaningful contributions to the success of an innovative organization, thereby accelerating my professional growth.

SKILLS

Software:
Microsoft Azure, VMware, Kubernetes, Docker, Linux OS, RTOS, Microsoft Office

Hardware:
IoT Devices, Routers, Switches, Electronic Circuit Design, Filter Design, Embedded System Design

Programming Language:
C/C++, Python, Java, Bash, PowerShell, HTML/CSS

Language:
Bahasa Malaysia (Native), English (Fluent)

EDUCATIONAL BACKROUND

Universiti Malaysia Perlis (Perlis) **(2019-2023)**
Bachelor of Computer Engineering

Multimedia University (Melaka) **(2017-2018)**
Foundation in Information Technology

SMK Tinggi Batu Pahat (Johor) **(2015-2016)**
Pure Science Stream, ICT

WORKING EXPERIENCE

NationGate Solutions (M) Sdn. Bhd. (Penang) **(Aug 2022-Oct 2022)**
Industrial Trainee (MIS)

- Demonstrated proficiency in network protocols, troubleshooting methodologies, and network security fundamentals.
- Configured and maintained network devices, such as routers, switches, and firewalls, resulting in increased efficiency.
- Resolved technical issues promptly, minimizing system downtime by 20%.
- Conducted research on emerging technologies and trends, providing valuable insights to the MIS team.

EXTRACURRICULAR INVOLVEMENT

Cadet, Reserve Officer Training Unit, UniMAP **(2019-2023)**

- Developed teamwork and leadership skills through military training and exercises.
- Commissioned as Second Lieutenant (Lt M) in Territorial Army Regiment by Yang di-Pertuan Agong.

CERTIFICATES

Huawei HCIA – Artificial Intelligence **(2022)**
Microsoft Azure Fundamentals **(2022)**
Microsoft Azure Administrator Associates **(2022)**

PROJECTS

Electronic Instrumentation Device Using NTC Thermistor

- Designed and implemented a temperature measurement system, showcasing expertise in electronic instrumentation and data acquisition.
- Integrated an ADC, resulting in improved accuracy and a 10% reduction in measurement error.

Keypad Code Lock System

- Developed a keypad code lock system using 8051 microcontrollers, demonstrating expertise in embedded systems and hardware integration.
- Designed the system with multiple modes for unlocking the door, adding new user IDs, and deleting existing user IDs, enhancing security and user experience.
- Integrated an LCD display using SPI protocol, providing fast and intuitive visual feedback.

IoT-Based Water Conservation System for Household Toilets

- Spearheaded an innovative project to address excessive water usage in Malaysia, aligning with the United Nations' requirement of 165 liters per individual per day.
- Successfully reduced water consumption from an average of 201 liters per person per day to meet the recommended limit.
- Raised awareness about the need to reduce water consumption and countered the misconception of abundant water sources in Malaysia.
- Contributed to the efforts of the Malaysian Water and Energy Consumers Association and the Malaysia Water Forum in promoting sustainable water usage.

Modelling and Analysis of IoT Network

- Conducted a comprehensive study on the implementation and analysis of a 6LoWPAN IoT network using the RPL-UDP protocol.
- Analyzed network performance, focusing on packet loss, power consumption, and scalability, resulting in improved efficiency and scalability recommendations.
- Presented findings, comparing them with existing literature and identifying optimization opportunities for network design and deployment.
- Contributed to IoT network modeling and provided insights for researchers and practitioners.