

# MUHAMMAD IRFAN TIJANIE BIN MOHAMMAD TASNIM

Kedah, MY | P: (+60) 1113129291 | [irfantijanie7@gmail.com](mailto:irfantijanie7@gmail.com) | [my.linkedin.com/in/irfantijanie](https://my.linkedin.com/in/irfantijanie)

## EDUCATION

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### UNIVERSITI SAINS MALAYSIA

Bachelor of Computer Science

Major in Computing Infrastructure; Minor in Economics

Cumulative GPA: 3.68/4.0 (First Class Honours)

Penang, MY

Oct 2020 - Sept 2024

## WORK EXPERIENCE

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### SCHOOL ON INTERNET ASIA

Remote

Research Assistant

Aug 2023 – Mar 2025

- Researched AI-driven smart agriculture solutions, designing and developing AIoT systems, integrating deep learning models with IoT sensors and actuator networks to optimize crop quality evaluation.
- Conducted performance analysis of Starlink satellite internet to identify its characteristics in different geographical areas of the SEA region as of 2025.

### SCHOOL ON INTERNET ASIA

Malang, Indonesia

NOC Engineer

Dec 2024 – Feb 2025

- Developed high throughput layer-2 VPN network through the utilization of VXLAN and Wireguard layer-3 VPN, outperforming SoftEther layer-2 VPN by 300%.
- Developed, maintained, and monitored the network that connects the APIE Camp network from Universitas Brawijaya, Indonesia, to Keio University, Japan.

### SCHOOL ON INTERNET ASIA

Penang, MY

Teaching Assistant

Feb 2024 – Aug 2024

- Assisted student learning in network engineering concepts (design, sysadmin, cloud computing, IoT, DNS) for participants from SEA and South Asia region, achieving complete deployment and utilization of personal network infrastructure.

### CORTEX ROBOTICS SDN. BHD.

Penang, MY

Technical Support Engineer Intern

Mar 2023 – Sep 2023

- Collaborated with sales and business development executives to analyze, gather, and validate customers' requirements in developing and configuring custom Automated Optical Inspection (AOI) machines.
- Configured the motion and vision software recipe for automated product inspection and multi-defect detection.
- Integrated a NAS server with the deployed AOI machines, enabling storage and remote access of inspection results.

## PROJECT AND PUBLICATION

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### AGRIBOT: AIOT SYSTEM TO CLASSIFY AND PREDICT QUALITY OF PRODUCE

Oct 2023 - Mar 2025

- Designed and implemented an end-to-end AIoT solution to autonomously grade produce using a deep learning model, automatically sort them into their designated containers, and store inspection results in the AWS cloud backend system.
- Deployed the autonomous produce sorting systems at local farms, achieving accuracy above 80% for autonomous produce grading across all grades for pineapple and guava.

## CO-CURRICULAR ACTIVITIES

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### ASIA PACIFIC ADVANCED NETWORK 59TH MEETING

Mar 2025

- Represent SOI Asia at APAN59 in Yokohama, Japan, presenting Community Based Research (CBR) projects to expert audiences and fostering international collaboration through a dedicated exhibition booth.

### ACM SIGCOMM AND AINTEC 2024

Aug 2024

- Awarded travel grant to represent Malaysia at SIGCOMM 2024 in Sydney, Australia, a high-tier computer networking research conference; networked with top global researchers and gained insights into emerging technologies in networking.

### ASIA PACIFIC INTERNET ENGINEERING(APIE) ADVANCED CAMP

Mar 2024

- Underwent a 7-day offline training at Keio University, Yokohama, Japan for further learning of internet engineering technologies such as BGP, virtualization, and monitoring.

### DEVELOP WITH DELL

Oct 2023 – Dec 2023

- Completed a 3-month online course and attended 10-day offline classes to learn the common Dell client and enterprise hardware and software components, and prepare for a career in tech support.

### ASIA PACIFIC INTERNET ENGINEERING(APIE) CAMP

Mar 2023 – Aug 2023

- Completed 3-month online courses and underwent a 5-day offline camp in Institut Teknologi Bandung(ITB), Indonesia, focusing on the introduction of internet engineering technologies.

## PERSONAL DEVELOPMENT

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### HOMELAB

- Hosting multiple services such as VPN server and Wake On Lan(WOL) relay using containerization and virtual machine on multiple Proxmox machines for personal use and learning.

## ADDITIONAL

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**Technical Skills:** Containerization, Hypervisor, Networking, Monitoring, AWS, Linux, Python, Mobile App Development

**Languages:** Fluent in Malay; Professional Proficiency in English

**Certifications & Training:** Huawei Certified ICT Associate(HCIA) - Datacom, Develop with Dell Career-Ready - Tech Support Professional

**Awards:** Cisco APJC NetAcadRiders - Bronze Certificate