Christopher Sii How Chiong

Embedded Systems Engineer

Contact

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portfolio Website
christophersii.github.io/ChrisPortfolio/

Education

Bachelor of Computer Science with Honours (Network Computing)
Universiti Malaysia Sarawak (UNIMAS)
Oct 2019 - Oct 2023
CGPA: 3.68

Expertise

- Network Equipment Configuration
- Database Management System
- IoT Development
- Mobile App Development
- Web Development
- Driver's License: Class D
- Programming languages: C, C++, C#, SQL, Java, Python, Dart, PHP, HTML, CSS, and JavaScript.

About me

Computer Science graduate with experience in IT support, networking, and system development. Eager to learn, contribute, and deliver reliable solutions.

Experience

Aug 2023 - Aug 2024
LONGi Malaysia Sdn. Bhd. - Bintulu

Infrastructure Engineer
- Managed IT asset deployment by assigning laptops, PCs, and company email accounts to new employees.
- Provided responsive IT support to end-users by resolving hardware, software, and connectivity issues via the ITSM ticketing system.
- Created and maintained Microsoft Deployment Toolkit (MDT) server images for streamlined laptop and PC provisioning.
- Coordinated with external ISPs (TM and CelcomDigi) for fiber optic and microwave termination point planning and implementation.
- Coordinated with main contractors to validate and implement network infrastructure plans, including equipment rack layout, AP deployment, firewall setup, and core/aggregate/access switch configuration.
- Supported setup of critical infrastructure components such as precision air conditioning systems and uninterruptible power supplies (UPS) for the server room.
- Facilitated remote access for Kuching IT team to configure IPSec VPN infrastructure for internal network access at the new Bintulu plant.
- Facilitated remote access for China HQ IT to transition from IPSec VPN to SD-WAN infrastructure at the new Bintulu plant.
- Assisted in evaluating and procuring ERP systems and departmental IT equipment based on business needs.

Feb 2022 - Aug 2022
Sarawak Information Systems Sdn. Bhd. (SAINS)

Network Engineer Trainee (Internship)
- Supported 3 projects implementation, including site survey, delivery, hardware and software component installation and configuration, testing, and commissioning.
- Provided guidance to users on the operation of newly set up systems.
- Provided technical support services including problem checking, analyzing, troubleshooting, and hardware replacement or repair.
- Traveled to 6 client sites, including 5 remote areas (Lubok Antu, Selangau, Dalat, Daro, and Matu in Sarawak) to provide WAN migrations and WAP deployments.
- Operated and maintained SarawakNet networks to optimize performance.
- Utilized Microsoft Visio for drawing floor plans and network diagrams.

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Language

Mandarin
Native

Kenyah
Native

English
Fluent

Bahasa Malayu
Fluent

Awards & Certs

Nov 2024 | UNIMAS
Gold Prize and Outstanding Achievement Award at the Seoul International Invention Fair (SIIF)

Apr 2024 | UNIMAS
Gold Award and Best Award at the Defence, Security and Sustainability Exhibition 2024 (DSS 2024)

Oct 2022 | HUAWEI
Huawei: (HCNA)HCIA-Datacom Cert ID: 010103901808854571409

Sep 2022 | UNIMAS (KESUMAS)
Basketball- Bronze Medal

Oct 2021 | HUAWEI
HMS Foundation Course Exam

Aug 2021| SAINS
Participation of Cyber Security in 60 minutes

2019 - 2023 | UNIMAS
Dean List for 3rd, 4th, 5th , and 7th, and 8th semester.

Oct 2016| Kementerian Belia & Sukan
Participation of Hari Sukan Negara

Apr 2016| Sunway University
Participation of Unity Games 2016

University IT Project

2023
Universiti Malaysia Sarawak (UNIMAS)

Flash Flood Observer (Final Year Project)
- Created an Android application using Dart and Syncfusion's Flutter charts for frontend data visualization and user interface.
- Developed a real-time flood monitoring system using ESP32, collecting and analyzing data on water levels, rainfall, temperature, and humidity.
- Implemented various technologies such as Arduino C++, Dart, PHP, Python, and the Vonage API for system development and SMS notifications.
- Sent data to a PHP server (Heroku) via HTTP Post for backend processing.
- Successfully developed an innovative solution addressing a real-world problem, thereby enhancing my problem-solving skills and understanding of applied technology.

2022
Universiti Malaysia Sarawak (UNIMAS)

Meeting Room Booking and Management System (Course Project- Team)
- Co-developed a web application booking system from scratch without using any CMS or frameworks.
- Built CRUD features including user registration, and admin-controlled functions.
- Implemented automated invoice generation and email delivery.
- Designed user dashboards for viewing booking history, payment status, and reports.
- Utilized HTML, CSS, JavaScript, PHP, and MySQL for full-stack development.

2021
Universiti Malaysia Sarawak (UNIMAS)

Netdata monitoring and troubleshooting: Computer System Administration and Management (Course Project- Team)
- Installed and configured Netdata for real-time health monitoring of Linux servers.
- Demonstrated use cases in Security Management (DoS attack) and Performance Management (stress testing).
- Evaluated Netdata's metrics to monitor CPU, memory, and network under load.
- Contributed to system administration and diagnostic planning in team collaboration.

References

Dr Khoo Eng Ann
LONGi Kuching | IT Senior Manager
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Dr Lau Sei Ping
UNIMAS | FYP Supervisor
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