CHIEW CHENG YI

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Fresh Software Engineering graduate from Universiti Malaysia Sabah (UMS) with proven experience in full-stack development. Motivated by building scalable systems and contributing to products that create real user impact. Strong academic foundation complemented by practical project delivery, research publications, and multidisciplinary teamwork.

EDUCATION

Universiti Malaysia Sabah
2021 – 2025

Bachelor of Computer Science with Honours (Software Engineering) *Kota Kinabalu, Sabah*

- **CGPA: 3.88/4.00**; Dean's List student (eight consecutive semesters)
- **Key Subjects**: Object-Oriented Programming, Data Structures & Algorithms, Web Engineering, UI/UX Design, Software Design, Mobile Apps Development, Database Management, Software Testing
- **Final Year Project:** Developed a web-based platform to help UMS students manage timetables, track CGPA, find events and network with peers using ML

SM All Saints, Kota Kinabalu, Sabah
2019 – 2021

Sijil Tinggi Pelajaran Malaysia (STPM) Science Stream *Kota Kinabalu, Sabah*

- **CGPA:** 2.92/4.00
- **Malaysian University English Test (MUET):** Band 5 (242/300)

SMJK Shan Tao, Kota Kinabalu, Sabah
2014 – 2018

Sijil Pelajaran Malaysia (SPM) Science Stream

- **Results:** 2A+ (English, Mathematics), 1A, 3A-, 3B+, 3B

WORK EXPERIENCE

Blaze Tech Sdn. Bhd.
Mar. 2025 – Aug. 2025

Software Engineer Intern *Kota Kinabalu, Sabah*

- Contributed 60+ code updates to the company's ACE platform through GitHub and Trello workflow.
- Developed the EzOpt Module, enabling client acquisition and transfer between corporate secretarial firms.
- Strengthened platform security by implementing session timeout handling and permission-based access control.
- Enhanced platform UX with pagination, file upload validation, and email template standardisation.

Shan Tao Band, SMJK Shan Tao
Jan. 2019 – Apr. 2019

Assistant Band Educator (Part-Time)

- Assisted the head coach with planning and conducting music practices for events inside and outside school.

TECHNICAL PROJECTS

UMS Student Academic Companion System (UMSSACS)
2024 – 2025

- Developed and deployed a web-based system to support UMS students in managing university life.
- Features a timetable builder, CGPA tracker, events and clubs finder, and study partners finder using ML.
- Technologies Used: Laravel, PHP, HTML, CSS, Bootstrap, JavaScript, MySQL, Python, DigitalOcean.

JomDining
2024

- Collaborated in a team of four to build an Android-based Point of Sales system for restaurant operations.
- Oversaw backend development, database design, and integration with the frontend interface.
- Technologies Used: Kotlin, SQLite, Android Studio.

Electroholics   **2023 – 2024**

- Built a localised e-commerce web application focused on computer hardware retail.
- Led team coordination, task delegation, and overall development progress.
- Technologies Used: HTML, CSS, JavaScript, PHP, MySQL.

PUBLICATIONS

Revolutionizing Airline Customer Satisfaction Analysis with Machine Learning Techniques   **2024**

IRICT 2023 (DOI: https://doi.org/10.1007/978-3-031-59707-7_13)

Ibrahim, A. O., Chiew, C. Y., Elsafi, A., Ghaleb, F. A.

- Explored predictive modelling approaches for assessing customer satisfaction in the airline industry. Evaluated multiple algorithms to identify effective methods for data-driven insights.

An Investigation of the Effect of Weather on Hand-Foot-Mouth Disease Incidence in Sarawak   **2024**

ICACSE 2023 (DOI: https://doi.org/10.1007/978-981-97-2977-7_25)

Ibrahim, A.O., Chen, W.Y., Robert, J.Z., Chiew, C. Y., Majid, M.A.

- Investigated the relationship between environmental factors and HFMD incidence using machine learning. Integrated datasets to support data-centric public health analysis.

AWARDS AND ACHIEVEMENTS

First Place, Borneo AI Hackathon   **2025**

- Competed as a team of three to develop **FoodXcel**, an AI-assisted FSSC 22000 compliance platform for food manufacturers.
- Transformed the team's design into a React frontend and deployed the prototype to Vercel for the final demo.
- Integrated a Copilot Studio agent to support chatbot-style assistance for compliance guidance.
- Awarded First Place for a well-structured pitch, strong technical integration, and the delivery of a tangible, high-fidelity product under tight time constraints.

Best Overall Award, TARUMT TechTrek: Innovators Pitch Challenge   **2024**

- Led a team of three to design **JomHarvest**, an IoT-supported agri-utility and farm-management solution aimed at strengthening food stability in Sabah.
- Served as team leader and presenter, delivering the final pitch and aligning the solution with UNSDG 9 (Industry, Innovation and Infrastructure).
- Developed a high-fidelity concept using Figma, outlining core features including weather-based cues, analytics dashboards, map zoning, and remote-control modules.
- Received the Best Overall Award for innovation, clarity of problem framing, and a solution aligned with sustainability and regional needs.

Technical Solution Award, MYStartup X Elevate 30-Hour Challenge   **2023**

- Collaborated with a team of three to develop **JomGarden**, an IoT-based home gardening system with live monitoring and remote control.
- Programmed the code for a working ESP32 proof-of-concept prototype, enabling wireless control through Blynk, and integrated real sensor behaviour to simulate real-time usage.
- Delivered a complete pitch including a working physical prototype, standing out as the only team to showcase a live hardware demonstration within the 30-hour challenge.
- Granted the Technical Solution Award for practical implementation, prototype completeness, and strong alignment between concept, execution, and presentation.

SKILLS

Programming Languages: HTML, CSS, JavaScript, PHP, Python, Java, Kotlin, C, C++
Frameworks and Tools: Laravel, Bootstrap, WordPress, Jupyter Notebook
Database, Server and Deployment: MySQL, SQLite, Apache, XAMPP, DigitalOcean, Git, GitHub, Trello
Design and Productivity: DaVinci Resolve, Canva, Figma, MS Office, Google Workspace
Languages: English (fluent), Bahasa Malaysia (fluent), Mandarin (proficient)
Soft Skills: Leadership, teamwork, problem-solving, presentation skills, adaptability, time management

EXTRACURRICULARS

SMK Tamparuli E-Community Outreach Project   **2024**
Logistics Team Member

- Assisted in coordinating event-day operations, including setting up and managing the PA system alongside other team members.
- Supported the transport and preparation of food, drinks, and equipment to ensure smooth event flow and participant engagement.

SM All Saints STPM Excellence Trail Program   **2022**
Panel Speaker

- Served as one of five invited alumni speakers for an outreach session attended by approximately 100 Form 6 students.
- Shared guidance on post-Form 6 pathways, highlighting the transition from pure science to computer science and how STPM prepared for university-level study.