Hii Zi Wei

Intern: DevOps/Cloud Engineer | Data Analyst/Engineer |
Software Engineer | Business Analyst
Internship Period: 20 Oct - 1 Feb (3-4 months) | Malaysian PR
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OBJECTIVE/EXECUTIVE SUMMARY

A highly motivated Computer Science student at UTAR seeking an internship in Malaysia or Singapore to apply strong academic knowledge and hands-on experience in software development, cloud computing, AI, and data analytics. Seeking an internship to apply academic knowledge and build cost-efficient, scalable tech solutions that support organisational goals. (Portfolio: https://my-portfolio-6kce.vercel.app/)

EDUCATION

Universiti Tunku Abdul Rahman (UTAR)   *Kampar, Perak | Oct 2023 – Present*
Bachelor of Computer Science (Honours)
CGPA: 3.9675

Universiti Tunku Abdul Rahman (UTAR)   *Kampar, Perak | Oct 2022 – Oct 2023*
Foundation in Science (Physical Science - Technological Stream)
CGPA: 3.96

SMJK Ave Maria Convent   *Ipoh, Perak | 2017 – March 2022*
Malaysian Certificate of Education (SPM)： 11As

SKILLS

- Programming Languages: C++, HTML/CSS, Java, JavaFX, GUI, JavaScript, Python
- Full Stack Development: React.js, Node.js, Firebase, Flutter
- Database Management: SQL, MongoDB, Microsoft Access
- Cloud: Architecture Design, AWS Core Services (EC2, S3, Lambda, CloudFront, ALB, WAF, Glacier)
- Data Analytics & Machine Learning: Pandas, Scikit-learn, Power BI, Excel (PivotTables, Data Cleaning)
- Other Tools: Linux, Git/GitHub, Canva, Figma, Google Apps Script, Microsoft 365

COMPETITION EXPERIENCES

I-HAX 24-Hour Hackathon - Best Pitching Award   *IIUM, Gombak | October 2024*
Role: Leader. Led to the development of *Motherly*, a mobile app providing personalised healthcare, financial planning, and educational resources for pregnant women, addressing financial constraints and care accessibility.

Tech4Good 2025 – Finalist (Ongoing)   *Vitrox, Penang | April 2024 - Present*
Role: Leader. Led to develop *SignifyAI*, AI-Powered Real-time Distress Detection System to assist deaf patients using real-time sign language recognition (20 BIM gestures, ≥85% accuracy), speech-to-text, and facial emotion detection (FER2013, ≥80%)

- Built edge-computing architecture for low-latency processing (< 2s) without internet access, optimised for rural clinics under an RM500 hardware budget.
- Develop UI with Python (Tkinter) featuring multilingual support and high-contrast accessibility.

HackAttack 24-Hour Hackathon – 11th   *UTAR, Kampar | August 2024*
Role: Leader. Led to build *Virtual Tour Guide*, a location-based travel website with LLM-powered translation and personalised nearby attraction suggestions within a 1km radius. Led frontend development using React.js and Figma for seamless user experience.

PROJECTS

AWS Cloud Engineer / DevOps Project: Giftos E-commerce Platform
Tools: EC2, S3, CloudFront, ALB, Lambda, API Gateway, WAF, Shield, S3 Glacier
- Deployed EC2-based dynamic site with S3-hosted static assets and CloudFront CDN (60% faster load times)
- Automated scaling and traffic handling via ALB + Auto Scaling; reduced EC2 cost 40% via Lambda APIs
- Implemented WAF & Shield to block 100+ bot attacks/day; cut S3 storage cost 70% with Intelligent-Tiering/Glacier

Java Stock Management System (SNS)
Skills: Java, JavaFX, JDBC, MS Access, OOP, GUI Design, Exception Handling, Database Integration
- Developed a GUI-based inventory system for electronic products using JavaFX, with dynamic forms for login, stock control, and product management.
- Engineered UCANAccess JDBC integration for syncing data with MS Access (.accdb), supporting CRUD operations, table creation, and logging inventory actions with timestamps.
- Applied OOP principles with abstract classes, inheritance, encapsulation of product logic, and role-based user access across both GUI and CLI interfaces.

Promotion Database Management System (PDBMS)
Skills: Oracle SQL, PL/SQL, ER/EER Modelling, Triggers, Stored Procedures, User Privileges, Business Rules
- Developed a comprehensive Oracle-based DBMS for managing fast-food promotions, customer loyalty, and tiered memberships.
- Enabled automated membership handling (tier upgrades, point expiry, birthday rewards), set meal and à la carte order processing, voucher distribution/redemption, and seasonal promotions via PL/SQL procedures, triggers, and role-based access controls.

Automated Leave Application System
Tools: JavaScript, Google Apps Script, AppSheet
- Designed and developed an automated leave management system to reduce manual errors and streamline approvals, with email alerts and real-time updates via Google Calendar API
- Built a user-friendly app using Google Apps Script and AppSheet, enabling employees to check leave balances and view analytics.
- Led frontend and backend development and project pitching for the Google Workplace Hackathon (APU).

AWARDS AND CERTIFICATIONS
- Certified with AWS Academy Graduate – AWS Academy Cloud Foundations (2025).
- Certified with AI Aware Badge-MyDiGITAL and Intel, AI Appreciate Badge-MyDigital and Intel, ASEAN Data Science Explorers 2024.
- Received UTAR Top Achiever Scholarship (100%) and President List in Bachelor of Computer Science.
- Malaysian University English Test (MUET) – band 4.5 (2025).

EXTRACURRICULAR
- **Top 25 Finalist (Placed 22nd), CodeNection Competitive Programming** – *MMU, 2024*: Competed in a 3-hour challenge, solving 7 algorithmic problems using C++.
- **Elected as Vice Chairman of Computer Society** - (July 2024 – Oct 2025): Organised Hackathon HackAttack 2.0, Deloitte Recruitment and Coding Workshop, Blockchain Workshop, and Enlight 5.0 (Company Visitation).
- **Elected as Assistant Secretary of MBOT Student Chapter** (July 2024 – Oct 2025): Organised Top Coder Competitive Programming, Hands-on Training from MBOT, and Company Visitation.
- **Study tour to NUS, Singapore, and UTM, Johor** – (November 2024: Help in organizing and gained insights into AI, cybersecurity infrastructure, and data analytics.

LANGUAGES

Mandarin, Cantonese, English, Malay: Native or bilingual proficiency