Choong Jun Zac

+60 182166421 | choongjunzac@gmail.com | linkedin.com/in/choongjunzac | github.com/ishtardsama

EDUCATION

Tunku Abdul Rahman University of Management and Technology (Penang Branch) *June 2025 - June 2027*
Diploma in Computer Science, GPA: 3.57 / 4.0
Relevant Coursework: Problem Solving & Programming, Software Development Fundamentals, System Analysis and Design

TECHNICAL SKILLS

Programming Languages: C++, Python, SQL, HTML, CSS, Java
Frameworks & Tools: Excel, Git, Github, Tableau, Linux

EXPERIENCE

BioEnergy Projects Sdn Bhd **Malaysia, PEN**
Junior Software Engineer *Jan 2027 - May 2027*

Freelance Musician **Malaysia, PEN**
Drummer *Jan 2023 - Present*

- Played with Penang Jazz Society (Jazz), Five Fictions (Rock/J-Rock), PSC band (R&B), and Han Chiang Liveband (Pop).
- Partnered closely with lead performers and sound engineers to align on arrangements, staging cues, and acoustic adjustments.

Google Dev Fest 2025 **Malaysia, PEN**
Technical Facilitator *Dec 2025*

- Served as the primary point of contact between technical speakers and the production team, ensuring that all session requirements were met prior to live execution.
- Directed the flow of a fast-paced, multi-session conference, minimizing downtime and maintaining system efficiency throughout the event lifecycle.

PROJECTS

MarineSim | Python *Aug 2026 – Present*
A marine ecosystem simulator built in python, aiming to assist students in understanding more about marine biology and ecosystem interactions through simulation visualization.

- Developed a marine ecosystem simulator using Python to visualize biological interactions for educational use.
- Implemented Pygame to render entities and ecosystem health metrics.
- Optimized simulation performance for thousands of concurrent entities by utilizing NumPy array vectorization.

POLE - Google Developer Groups (GDG) KitaHack & National AI Competition (NAIC) 2026 | C++, Dart *Feb 2026*
Smart walking stick, with obstacle detection and recognition through cameras, GPS locator and integrated LLM AI voice assistant.

- Utilized C++ to process real-time sensor data.
- Integrated LLM AI voice assistant to aid the visually impaired for reading heavy tasks like browsing menus or reading road signs.

ACTIVITIES

Han Chiang LiveBand **Malaysia, PEN**
Band Leader *Jan 2023 – Dec 2024*

- Facilitated rehearsals and coordinated live performances with a 6 piece band.

Han Chiang St. John Ambulance of Malaysia **Malaysia, PEN**
Year Leader *Jan 2023 – Dec 2023*

- Organized training schedules and planning activities for a cohort of 60+ members.

IT technician *Jan 2020 – Dec 2022*

- Minimized downtime during allocated training sessions and events by working on the audiovisual infrastructure.