CHENG PIN-JIE

SOFTWARE DEVELOPER | +6011 1543 2468 | chengpinjie03@gmail.com | [Github](#)

WORK EXPERIENCE

Software Intern, Full Time (8 months)   [Reference](#)

Group Technical Solutions, PETRONAS Technical Services Sdn Bhd, KLCC Tower 3   Jan - Aug 2024

- Experience developing enterprise-grade **web** applications with a focus on scalability and maintainability.
- Built enterprise applications and custom agents using OutSystems, incorporating **HTML, CSS, and JavaScript** within a full SDLC governance framework.
- Aid business transformation in converting into digitized documents through **Python**-based workflow and data-processing pipeline.
- Collaborated closely with subject matter experts, engineers, and management teams during business trips and strategic meetings to align on project direction and organizational goals.
- Managed and maintained databases across **MySQL, Azure Cloud, and MongoDB**, ensuring data integrity, availability, and efficient system performance.
- Performed data cleaning, parsing, processing, and visualization using **Microsoft Excel and Power BI** to support analysis and decision-making.

SKILLS

Tech Stacks | *Front-end*: Html, CSS, Javascript, Dart, Tailwind CSS | *Back-end*: MySQL, Azure, REST API, FIrebase, MongoDB, JSON | *Framework*: Flutter, React Native, Expo, React.JS, FastAPI, OpenCV, Django, Flask, OpenRouter, Docker, Ultralytics, GIT

Data Process | Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, YoloV8, LlamaParse, LangChain

Creative |Figma, Davinci Resolve, Adobe Premiere, Adobe Illustrator, Adobe Photoshop, Capcut, Canva

Language | Chinese (working proficiency), English (working proficiency), Malay (conversational fluency)

PROJECTS EXPERIENCES

Intact Std. [Link](#)
Full Stack Developer
- Built a cross-platform **React Native** app featuring real-time location tracking, permission handling, and persistent map regions.
- Integrated **Google Maps API** with interactive markers, animated transitions, and POI interaction.
- Implemented places search autocomplete, reverse geocoding, and detailed place information (ratings, hours, photos, contacts).
- Developed location-based event reporting with special routing to steer users away from flagged danger zones, integrating with **Firebase**.

SARV [Link](#)
Technical Lead
- Led a group of 4 members in prototype design and **UI/UX** development of the SARV app, ensuring the interface was intuitive and aligned with user needs.
- Defined user journey – Mapped customer flows and interactions to create a seamless multi-service experience in the prototype.

- Collaborated on **business plan** – Contributed technical insights to financial models, growth strategies, and operational setup in the company's business plan.
- Bridged tech and strategy – Translated business requirements into technical feasibility, aligning app features with market goals.
- Prepared scale-up roadmap – Outlined future enhancements (AI integration, service expansion, predictive features) to guide post-prototype development.

Merlina AI Link

AI Dev (Final Year Project)

- Created a Gradio-based web interface (PWA) for user-friendly interaction in **Python**.
- Developed Merlina AI, a **Retrieval-Augmented Generation** (RAG) chatbot for engineering documentation.
- Ensure smooth user interaction by creating a chatbox, send button and chat history design.
- Processed unstructured PDFs using LlamaParse, LangChain, and GPT4AllEmbeddings for semantic search.

Car Buddy Link

UIUX Designer

- Structured **wireframes** to establish the foundation and flow of the design.
- Developed interactive prototypes using **Figma** to visualize and test user experiences.
- Collaborated with fellow designers to refine concepts, ensure design consistency, and enhance overall usability.

Bus Track Link

Frontend Developer, 1st Runner Up of Syntech Hackathon 2023

- Designed and developed a cross-platform app in **Flutter**, emphasizing a clean, consistent, and responsive user interface across Android and iOS.
- Created user-centered **UI** for students and drivers, ensuring clarity, ease of use, and accessibility tailored to each group's needs.
- Implemented schedules and ETA features with clear visual cues, helping students quickly understand timing and plan their journeys.
- Focused on delivering a seamless user experience, using simple navigation flows, readable layouts, and smooth interactions.

Mix-Food Price Prediction Link

AI Developer

- Developed a computer vision model to estimate food prices based on detected food composition.
- Implemented food portion detection on round-plate images using **YOLOv8** and custom-trained datasets.
- Conducted model development and experimentation using **Jupyter** Notebook, including dataset preparation, training, and evaluation.

EDUCATION

Bachelor of Computer Science (Hons)

Universiti Teknologi PETRONAS, Seri Iskandar, Perak.   CGPA: 3.71/4.00   Sept 2025

LICENSE & CERTIFICATION

Bachelor of Computer Science (Hons) First Class, Universiti Teknologi PETRONAS

Credential ID: 140000147   Oct 2025

Advanced Open Water Diver, TDI SDI Scuba Diving International

Credential ID: 1608408   Aug 2024