

Wee Shou Xiang

☎ +6010-778-5916 ✉ weeshouxiang@gmail.com [in linkedin.com/in/wee-shou-xiang/](https://www.linkedin.com/in/wee-shou-xiang/) github.com/xiang2007

Education

42 Kuala Lumpur

Computer Science

Expected Graduation: May 2027

Kuala Lumpur, Malaysia

- Project-based computer science program focused on systems programming, algorithms, and software engineering.
- **Technical Focus:** C, Linux, Git, Data Structures, Algorithms, Computer Networks, Operating Systems

Extra Curriculum

Sunway FutureX

Learning Facilitator

May 2025 – June 2025

Kuala Lumpur, Malaysia

- Guided approximately 100 students through AI literacy and Python programming workshops, supporting hands-on learning and problem-solving.
- Provided one-on-one technical guidance during coding exercises, helping participants overcome programming challenges and improve learning outcomes.
- Assisted participants in deploying Python applications using Streamlit, enabling 80% of projects to be successfully launched online.

K-Youth Development Program

Learning Facilitator

May 2026 - June 2026

Kuala Lumpur, Malaysia

- Facilitated hands-on programming sessions for aspiring software developers, guiding participants through coding exercises and problem-solving techniques.
- Delivered one-on-one technical guidance, helping participants overcome coding challenges and complete assigned projects.
- Guided participants through peer evaluations, clarifying evaluation criteria and helping them navigate the assessment process.

TEDxPetalingStreet

F&B Volunteer

May 2026 - Present

Kuala Lumpur, Malaysia

- Supported food and beverage operations for a TEDx event with 1,800+ attendees and 200+ volunteers, ensuring smooth service throughout the event.
- Worked with volunteers across different teams to coordinate event flow and maintain efficient attendee support.
- Adapted to fast-paced event conditions while ensuring timely delivery of assigned responsibilities.

Projects

Minishell | C, POSIX, Make, Unix

- Built a Unix shell from scratch in C with a two-person team, replicating core Bash behavior including parsing and execution.
- Implemented pipelines, I/O redirection, and heredocs using process forking and file descriptor management.
- Developed built-in commands (cd, echo, export, unset, env) with environment variable expansion and quote handling.

AWS Hackathon Project | Python, AWS, REST APIs

- Designed and built a cloud-based application end-to-end with a team under a strict hackathon deadline.
- Developed backend logic and API integrations connecting multiple application components.
- Coordinated feature development across team members using Git-based version control workflows.

AI Receipt Scanner (OCR + LLM Pipeline) | Python, FastAPI, Docker, OpenAI API

- Built an AI-powered pipeline extracting structured expense data (merchant, date, total) from receipt images using OCR and LLM-based parsing.
- Designed a FastAPI backend with custom JSON schema extraction to improve consistency of parsed output.
- Containerized the system with Docker for reproducible deployment across environments.

Technical Skills

Languages: C, C++, Python, Bash, SQL

Technologies: FastAPI, Docker, Git, GitHub, SQLite, Bootstrap, Jinja2, Uvicorn, Linux

Concepts: Data Structures, Algorithms, REST APIs, Client-Server Architecture, Object-Oriented Programming, Memory Management, Multithreading, Networking, Database Design, Version Control, Linux System Administration