

How Pei Yan

Subang Jaya, Malaysia | +60 12 682 3156 | howpeiyan@outlook.com | [Portfolio](#) | [GitHub](#) | [LinkedIn](#)

PROFESSIONAL SUMMARY

Final-year Software Engineering student with full-stack development expertise, specializing in building scalable web applications from responsive frontends to robust backends. Proficient in React, JavaScript, Python, Java, Spring Boot, Flask, and databases, with hands-on experience delivering end-to-end solutions across UI/UX, API design, and system architecture. Seeking a software engineering internship to contribute across the development lifecycle and gain industry experience. Available for 3-month internship from Jan 2026 – Apr 2026.

PROJECTS

AI Text Summarizer | Python, Streamlit, Hugging Face Transformers Aug – Sep 2025

- Built a reliable web app that condenses lengthy articles into concise summaries using BART and T5-Small NLP models
- Optimized resource usage with model caching, memory-efficient settings, and smart loading, reducing memory footprint by 40%
- Implemented text preprocessing, export functionality, and session history to enhance usability

Statistics Toolkit Web Application | Python, Flask, SQLite Mar – Apr 2025

- Developed statistical computation engine with Flask backend, enabling ANOVA, regression, and confidence intervals on uploaded datasets
- Integrated persistent SQLite storage, reducing repeated manual entry by 80% and improving reproducibility for 100+ test users

Movie Database API | Java, Spring Boot, React, MongoDB Feb – Mar 2025

- Designed and deployed RESTful API with Spring Boot and MongoDB, supporting 10,000+ movie records with <200ms query response
- Implemented robust CRUD operations with data validation, error handling, and secure API endpoints
- Scaled API with indexing and optimized queries, improving throughput by 30%

Personal Portfolio Platform | JavaScript, Next.js, React, Tailwind CSS, Framer Motion Jan 2025 – Current

- Created a dynamic portfolio with dark/light themes using CSS variables and DOM manipulation
- Implemented JSON-based content loading and reusable components for scalability
- Deployed on Vercel using dynamic routing and modern UI animation techniques

EDUCATION

Sunway University Subang Jaya, Selangor

Bachelor of Software Engineering (Hons) Jan 2023 – Aug 2026 (Expected)

- GPA: 3.85/4.00 | Dean's List Award (2024 – 2025)
- Semester Abroad: Lancaster University, UK (Sep – Dec 2024)
- Relevant Coursework: Web Development, Data Structures & Algorithms, Database Management Systems, Software Testing, Distributed System, Software Architecture & Design Patterns, Object-Oriented Programming, Computer Networks, Operating Systems

Sunway College Subang Jaya, Selangor

Australian Matriculation Programme (AUSMAT) Jan – Dec 2022

- ATAR: 89.35 | Top 15% Worldwide (WACE 2022)

EMPLOYMENT HISTORY

Part Time IT Support Assistant | Triumph 2000 Sdn. Bhd., Klang May – Jun 2024

- Configured and set up multiple desktop systems, ensuring all hardware components were properly connected and operational.
- Installed and configured Microsoft Office suite on all desktop systems, ensuring software and license compliance.
- Performed initial troubleshooting and testing, resolving hardware and connectivity issues on the first attempt.

SKILLS

Frontend Development: JavaScript, React, Next.js, Tailwind CSS, HTML5, CSS3

Backend Development: Java, Python, Scala, Spring Boot, Flask, Node.js/Express, REST APIs

Database: SQL, MySQL, PostgreSQL, MongoDB, SQLite

Tools & Practices: Git/GitHub, Agile/Scrum, Linux/CLI, AWS, Vercel, Postman, Jira, Figma

ACHIEVEMENTS & CERTIFICATIONS

2025 Sunway University Certificate of Recognition – IREB CPRE

2025 IREB Certified Professional for Requirements Engineering (CPRE)

2025 Deloitte Australia Tech Job Simulation – Forage

2024 SAS Learn Badge – Data Analytics Certification

2024 Lancaster University Global Mobility Scholarship

2022 – 2025 Sunway University Jeffrey Cheah Scholarship – Ace & Entrance Awards