

# Liaw Hang Sheng *Fullstack developer | AI enginner*

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## Education

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07/2022 – 06/2025 **Bachelor of Computer Science in Data Science**  
*Monash University Malaysia: CGPA: 3.63/4.0*

## Professional Experience

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11/2024 – 02/2025 **Nedex Group**  
*Web Developer Intern*

- Developed a browser-based image recognition system using TensorFlow.js and MobileNet.
- Explored SaaS deployment for real-time image classification in a production setting.
- Gained hands-on experience in full-stack web development using Laravel, Filament, React.js, Vue.js, and Astro.js.
- Developed a third-party API extension with Sanctum authentication, documented using Scribe, and tested with Postman.
- Implemented features on existing projects with optimized code.
- Diagnosed and resolved numerous production bugs in the “previous projects, significantly improving app stability.
- Designed and implemented frontend interfaces using React.js, with supporting tools such as TypeScript, CSS Modules, and axios for API integration.

## Projects

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### TheTrendyClub - Full Stack E-Commerce Web Application

*React, Node.js, Express, MongoDB, Stripe, Razorpay, Cloudinary*

- Designed and developed a full-featured e-commerce platform with customer-facing storefront and admin dashboard, supporting product browsing, cart management, and secure checkout.
- Built RESTful APIs for user authentication, product management, order processing, and payment integration using Node.js, Express, and MongoDB.
- Integrated multiple payment gateways (Cash on Delivery, Tng, Online Banking) to provide flexible checkout options.
- Implemented JWT-based authentication and authorization for users and admin roles, ensuring secure access to sensitive operations.
- Developed responsive frontends for both customers and admins using React, Vite, and Tailwind CSS, enhancing user experience across devices.
- Enabled image uploads and storage via Cloudinary, supporting rich product listings with multiple images.
- Automated order status updates and inventory management through the admin dashboard.
- Utilized Git for version control and followed best practices in code organization and modularity.
- Deployment on Vercel to ensure scalable, reliable, and globally accessible hosting for both frontend and admin applications.

### AetherAI – Full Stack AI SaaS Platform

*React, Node.js, Express, PostgreSQL, Clerk, Tailwind CSS, Cloudinary, OpenAI, Gemini, ClipDrop, Vercel*

- Designed and developed a full-stack SaaS platform enabling users to generate AI-powered content and images, remove backgrounds/objects, and review resumes using advanced AI models (Google Gemini, ClipDrop, OpenAI).
- Built a modern, responsive frontend with React 18, Vite, Tailwind CSS v4, and integrated authentication and subscription management using Clerk.

- Engineered a scalable backend with Node.js, Express, and NeonDB (PostgreSQL), implementing RESTful APIs for AI content generation, image processing, and user management.
- Integrated multiple third-party AI and cloud services (Cloudinary for image storage/processing, PDF-Parser for document analysis).
- Deployed both frontend and backend on Vercel with CI/CD, environment variable management, and production-ready configuration.
- Implemented secure file upload handling, JWT-based authentication, and usage-based access control for free and premium users.
- Learned best practices in SaaS architecture, API integration, cloud deployment, and full-stack security.

## JamMaster

*React.js, Flask, Python, TensorFlow, Docker, MIDI, REMI Transformer-XL*

- Developed a full-stack web application enabling users to generate and play AI-composed piano music using a custom-trained REMI Transformer-XL model.
- Built an interactive React.js frontend for MIDI file upload, virtual piano input, and real-time playback.
- Designed and implemented a Flask backend to process user inputs, run deep learning inference, and serve generated music.
- Integrated advanced MIDI processing and audio rendering, allowing users to customize generation parameters for creative control.
- Containerized the application with Docker and managed dependencies using Conda for reproducible deployment.
- Gained hands-on experience in AI model integration, RESTful API design, and end-to-end web application development.

## Static Factory – Text-Based Survival Game

- Developed a rogue-like survival game using Object-Oriented Programming (OOP) principles in Java.
- Applied encapsulation, inheritance, and polymorphism to model interactive game elements such as planets, items, monsters, and events.
- Built a dynamic tick-based system, where the environment evolves over time (e.g., fruit regrows, monsters move).
- Practiced team collaboration, code documentation, and presentation of design choices to stakeholders

## Awards

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03/2025

### Varsity Hackathon Top 25

*University Sains Malaysia*

- Developed a mobile app using Flutter aimed at assisting farmers with weather prediction, plant health analysis, and agricultural planning.
- Integrated Firebase for real-time database, user authentication, and cloud functions to support a scalable backend.
- Implemented a weather forecasting feature by integrating a public API to help farmers plan their activities.
- Built a plant analysis module allowing users to upload images for basic health assessment using AI or predefined rules (based on what you implemented — adjust as needed).
- Focused on solving SDG-related challenges such as Zero Hunger and Climate Action by targeting real agricultural problems in Malaysia.
- Collaborated in a cross-functional team under tight time constraints to build and present a functional prototype within 48 hours.

04/2024

### Monash Coding League Top 10

*Monash University Malaysia Tech Club*

A team-based competitive programming event where students solve real-world algorithmic challenges, showcasing problem-solving, coding skills, and teamwork in a collaborative tech environment.

**Skills**

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**Languages**

Python, Java, PHP, HTML, CSS, JavaScript, TypeScript

**Tools**

Git, Github, Gitlab, Docker, Google Cloud, Jira,  
Firebase, MongoDB

**Frameworks**

Laravel, Flask, Django, React, Spring, FastAPI,  
Tensorflow, Pandas