

# Ping Wee Loo

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## EDUCATION

### Nanyang Technological University

Aug 2023 – May 2027

Bachelor of Computing (Honors) in Computer Science, Year Two

- Part of the **Accelerated Bachelors Programme**, offered to high performing students to fast track graduation.
- **Hackathon Winner** – Amazon Web Services LLM League - **1st Runner Up**

## EXPERIENCE

### Temus Pte Ltd

Jun 2024 – Nov 2024

AI Engineer Intern

- Developed a HR automation platform using **FastAPI**, **PostgreSQL** and **React**, reducing resume screening time by 75%.
- Engineered **explainable AI** powered candidate evaluation using OCR and Retrieval Augmented Generation (RAG) technologies on **LangChain**, fit for dynamic job requirements while staying auditable.
- Implemented **secure** and **scalable vector storage** for remote vector database using SingleStore.
- Achieved **>90% code coverage** in unit testing, successfully identified bugs during development, and ensuring robust code quality
- Containerized the database using **Docker**, allowing ease of backend testing without affecting users.
- Enhanced code clarity through **UML diagrams** and design documentation to **reduce onboarding time**.

### Nanyang Technological University

Sep 2023 – Jul 2024

Media & Information Technology Officer

- Designed and implemented IT solutions for NTU Sports Club, enhancing and providing new experiences to event participants.
- Developed an in-house race timing system, **saving \$5000 of club funds** from contracting external vendors.
- Maintained upkeep of NTU Sports Club's website, posting updates of the club's activities throughout the year.

## PROJECTS

### Portfolio Website | React, TypeScript, TailwindCSS, Vite

Dec 2024 – Present

- Created a portfolio website to document interesting projects I have worked on/am working on.

### HomeGoWhere | Java, SpringBoot, PostgreSQL, React, JavaScript

Sep 2024 – Nov 2024

- Developed a full-stack web application with **Spring Boot** serving a REST API and **React Native** for frontend for cross platform.
- Implemented role-based access control using **JWTs** and **Spring Security**, securing API endpoints.
- Integrated government facilities API to provide location-based data and developed historical price analysis features.

### Healthcare Management System | Java

Sep 2024 – Nov 2024

- Developed a Command Line Interface application incorporating **Object Oriented Design** concepts and **design patterns**.

### AskNarelle | Python, LangChain, Microsoft Azure

May 2024 – Jun 2024

- Co-developed a RAG chatbot built on **LangChain** and **Streamlit**, hosted and deployed using **Microsoft Azure**, to help students in revision and learning course specific content.

### Amazon Web Services LLM League - 1st Runner Up | AWS Sagemaker

Feb 2024 – May 2024

- Fine tuned a 7B parameter LLM in a target domain, and outperformed a larger 70B parameter generally-trained model, providing **better responses in 91% of select questions**. Emerged 1st Runner Up among 6 finalists.

### Spam Email Classifier | Jupyter Notebook, Pandas, NLTK, scikit-learn, Matplotlib

Jan 2024 – Apr 2024

- Exploratory project making use of **NLP** and **Machine Learning** to process, classify and detect spam emails.
- Classification algorithms used : Support Vector Machines, Naive Bayes, Random Forest and Logistic Regression.

## SKILLS

**Programming Languages** : Python, Java, C/C++, SQL, HTML/CSS, JavaScript (TypeScript), Markdown, R

**Frameworks/Libraries** : React, Tailwind, FastAPI, Spring Boot, Streamlit, scikit-learn, NLTK, numpy, pandas

**Tools** : Git, Docker, Amazon Web Services, Microsoft Azure, Firebase, Vercel, Jupyter, IntelliJ

**Certifications** : Lakera AI Security for Product Teams, AWS Certified Solutions Architect Associate (ongoing)

**Languages** : English, Mandarin, Malay (Conversational)

## EXTRACURRICULARS

### Gen-C Generative AI Learning Community

Jul 2024 – Present

Coreteam Member

- Volunteering to build up AI talent and boost the AI practitioners pool in Singapore, by organizing workshops for the public for free!
- Developing training curriculum for the public, as well as providing hands-on assistance to learners during the workshops.

### 28th National Vertical Marathon

Nov 2023 – Jun 2024

Co-Chairman, Organising Committee

- Oversaw a team of 16 members in planning and executing the 28th National Vertical Marathon, a national-level towerrunning competition, which saw participation from World No.1 Ranked Towerrunner, among other international participants.
- Identified lack of registration avenues and payment acceptance, and worked in partnership with Maybank to boost participation numbers to ease and incentivise participation to bring in a last minute 5% increase in participation.