

# Ping Wee Loo

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## EDUCATION

Nanyang Technological University

Singapore

**Bachelor of Computing (Honors) in Computer Science**

- **Accelerated Bachelors Programme** – offered to top performing students, option to fast track graduation
- **Hackathon Winner** – Amazon Web Services LLM League - **1st Runner Up**

## EXPERIENCE

Temus Pte Ltd

Singapore

**AI Engineer Intern**

**Jun 2024 - Nov 2024**

- Developed an effective HR automation service with FastAPI, PostgreSQL, React; reduced screening time by 75%
- Engineered explainable AI driven 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, and ensured 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

## PROJECTS

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

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

**HomeGoWhere** | Java, Spring, PostgreSQL, React, JavaScript

- Resale Housing Marketplace web app built using Spring serving a REST API and React Native for frontend
- Implemented role-based access control using JWTs and Spring Security to secure API endpoints
- Integrated government facilities API to provide location-based data and developed historical price analysis features

**Healthcare Management System** | Java

- Command Line Interface application for managing hospital records; focused on OOP concepts and design patterns

**Automated Timetable Management System** | Python, Selenium

- Created a bot to mimic human interaction in Selenium to automatically register for desired timetable slots

**AskNarelle** | Python, LangChain, Azure

- 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

- 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

- 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, Streamlit, scikit-learn, NLTK, numpy, pandas

**Tools** : Git, Docker, Amazon Web Services, Microsoft Azure, Vercel, Jupyter, VS Code, 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**

Singapore

Coreteam Member

- Volunteer initiative with NLB and AWS to build up AI talents in Singapore, open to all ages. Till date, we have an outreach of more than 1,000 learners in our workshops!

**28th National Vertical Marathon**

Singapore

Co-chairman, Organising Committee

- Led the successful organisation of a non-profit sporting event with over 800 participants, facilitated dealings with organisations such as Maybank to boost participation rate