

Loo Ping Wee

+65 94242718 | pingwee99@gmail.com | linkedin.com/in/ping-wee | github.com/lpwee | pingw.me

EDUCATION

Nanyang Technological University

Singapore

Bachelor of Computing (Honors) in Computer Science

Aug 2023 - May 2027

- **Accelerated Bachelors Programme** – offered to top performing students, option to fast track graduation
- **Hackathon Winner** – National AI Student Challenge (AWS Track) – **1st Runner Up**
- **Certifications** : AWS Certified Solutions Architect Associate (ongoing), Lakera AI Security for Product Teams

EXPERIENCE

Temus Pte Ltd

Singapore

AI Engineer Intern

Jun 2024 - Nov 2024

- Developed an effective HR automation service using FastAPI, PostgreSQL and React to reduce resume screening time by 75%, saving countless man-hours.
- Engineered an AI driven resume evaluation pipeline capable of explaining evaluations to enable human-in-the-loop resume screening by combining OCR and Retrieval Augmented Generation (RAG) techniques on LangChain.
- Optimised CI/CD pipelines and achieved >90% code coverage in unit tests, ensuring robust production code quality.
- Enhanced code clarity through UML diagrams and design documentation to reduce developer onboarding time.
- Implemented Docker containerisation of production database, enabling isolated testing environments and resulting in zero test-related production incidents.

PROJECTS

Melodle – Web-based Music Game | *React, TypeScript, TailwindCSS, Golang*

- Developed a multiplayer web game using React with real-time game state synchronisation using WebSockets.

HomeGoWhere – Home Resale Marketplace | *Spring, Java, PostgreSQL, React Native, JavaScript*

- Engineered a full-stack housing marketplace using Spring Boot and React Native, implementing filtering algorithms and geospatial queries to reduce homebuyers' average property search time.
- Secured REST API endpoints with Spring Security and JWT authentication, enabling role-based access control.

Automated Timetable Management System | *Python, Selenium*

- Built a bot to mimic human interaction in Selenium to automatically register for desired timetable slots when vacant, to optimise the random allocated timetables given by the school.

Spam Email Classifier | *Jupyter Notebook, Pandas, NLTK, Scikit-Learn, Matplotlib*

- Leveraged NLP and Machine Learning techniques to process, classify and detect spam emails with the highest accuracy of 99.2% using Support Vector Machine as the classification algorithm.
- Experimented with other algorithms, such as Naive Bayes Classification, Random Forest and Logistic Regression.

EXTRACURRICULARS

Gen-C Generative AI Learning Community

Singapore

Coreteam Member

Sep 2024 - Present

- Volunteer initiative with NLB and AWS to build up Generative AI talents in Singapore and ASEAN countries, through monthly community sharings and meetups with an outreach of over 1000 attendees till date.
- Delivered training curriculum and learning materials for monthly meetups, actively iterating with other core members to enforce high quality of teaching for the community.

28th National Vertical Marathon

Singapore

Vice Chairman, Organising Committee

Sep 2023 - May 2024

- Led the successful organisation of a non-profit sporting event to promote healthy living and exercise to the public and NTU affiliates, resulting in over 800 participants in attendance.
- Identified and addressed publicity shortfall by engaging in partnership with Maybank to boost participation.

SKILLS

Languages : Python, Java, JavaScript (TypeScript), C, SQL, HTML/CSS, Markdown, JSON, YAML, R, Bash

Frameworks : React, TailwindCSS, FastAPI, Spring, LangChain, Vite

Libraries : Scikit-Learn, NLTK, NumPy, Pandas, Selenium, re, os

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