

Loo Ping Wee

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EDUCATION

Nanyang Technological University

Singapore

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

Aug 2023 - May 2027

- 2x Hackathon Winner – National AI Student Challenge AWS Track 2nd Place, NTU Deep Learning Week Champion

EXPERIENCE

OkRecall AI

Singapore, Remote

Software Engineer Intern

Mar 2025 - Present

- Developing automated call agents in Golang capable of handling entire sales cycles, reducing effort spent in calling leads by up to 70%, allowing sales teams to operate more efficiently and cheaper.
- Implemented distributed background job processing using the River queue system, ensuring scalable asynchronous processing to support high-throughput application workflows as business scales.

Nethermind

Singapore, Remote

AI Research Intern

Jan 2025 - Mar 2025

- Built and evaluated temporal knowledge graphs using Graphiti and Neo4j, to build a novel AI agent memory architecture for understanding of time-sensitive relationships in evolving data.
- Developed Docker configurations for multi-container applications, creating consistent and reproducible development environments, significantly reducing setup time for new team members.
- Deployed Telegram bots with integrated agent tooling for a convenient interface to interact with the above agents.
- Automated webhook deployment using ngrok and Telegram API for testers to easily provision agents for themselves.

Temus Pte Ltd

Singapore, On-Site

Software 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.
- 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.

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.

SKILLS

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

Frameworks : React, TailwindCSS, FastAPI, Spring, LangChain, Vite, Node.js

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

Tools : Git, Docker, Linux, Amazon Web Services, ngrok, Supabase, Postman, Vercel, Jupyter, VS Code

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