

Lim Jun Jie

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Education

National University of Singapore - Bachelor of Computing, Computer Science

Expected Graduation: May 2030

Singapore Polytechnic - Diploma, Applied AI and Analytics

Apr 2021 – Feb 2024

- GovTech GeekOut Hackathon 2023: 3rd Place
- Cyber Youth Singapore YouthxHack 2022: Special Mention

Experience

AI Research Intern - Agency for Science, Technology and Research (A*STAR)

Feb 2024 – May 2024

- Researched and implemented a Dense Inception Network block using PyTorch, improving image segmentation accuracy by 3% over the previous production model on test data.
- Developed an image data processing pipeline to fix identified data quality issues and increase training data variance, improving model explainability by 10% on a balanced subset of production data.
- Built a reusable image segmentation model training script using PyTorch and TensorBoard, improving model training observability and data logging for the department.

Software Engineer Intern - ANOR Technologies

Sept 2023 – Jan 2024

- Independently developed a ML-powered spectroscopy dashboard from scratch using PyTorch, React and FastAPI, communicating with the CTO to define scope, manage timelines and iterate on feedback.
- Implemented a CI/CD pipeline for the dashboard's services with AWS CodePipeline, streamlining the deployment process.
- Studied the viability of spectroscopy for explosives classification through data processing, analysis and machine learning modelling. Presented the study to researchers at Home Team Science and Technology Agency (HTX).

Software Engineer - Singapore Polytechnic, Industry Client Project

Apr 2023 – Aug 2023

- Designed and built a microservices architecture for a Data Aggregator platform using Flask, PostgreSQL and Docker, ensuring the scalability and modularity of the back-end.
- Developed the front-end dashboard for a Data Aggregator platform using React and Recharts, enabling customisable visualisation of data to improve user experience.
- Led a team of four developers to collaborate with the team at Evvo Labs, navigating product direction.

Projects

DevsGoWhere Telegram - t.me/devsgowhere

Sept 2025

- Making devsgowhere.com more accessible by bringing summarised event postings to a Telegram channel. Achieved by building a web scraper with TypeScript and running it as a daily cron job.

justDCA - just-dca.pages.dev

Dec 2024 – Jan 2025

- Built a web application with React and FastAPI to visualize and compare historical dollar-cost averaging (DCA) performance of listed stocks, educating users on the benefits and downsides of DCA.
- Wrote test cases for the dashboard form using React Testing Library, ensuring that bugs are caught before deployment.
- Implemented React Suspense related features to improve user experience by handling loading states more gracefully.

Skills

Languages:	Python, JavaScript, TypeScript, SQL
Web Development:	HTML, CSS, React JS, Node.js, Flask, FastAPI
Tools:	Docker, Git
Data/AI:	PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy