Lim Jun Jie

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Education

National University of Singapore   Aug 2026 – May 2030 (Expected Graduation)
Bachelor of Computing in Computer Science   *Singapore*

Singapore Polytechnic   Apr 2021 – Feb 2024
Diploma in Applied AI and Analytics   *Singapore*
- GovTech GeekOut Hackathon 2023: 3rd Place
- Cyber Youth Singapore YouthxHack 2022: Special Mention

Experience

AI Research Intern   Feb 2024 – May 2024
*Agency for Science, Technology and Research (A*STAR)*   *Singapore*
- Implemented and benchmarked a novel Dense Inception Network block in PyTorch, leading to a 3% increase in image segmentation accuracy compared to the production model.
- Developed an image data processing pipeline to fix identified data quality issues and increased 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 team.

Software Engineer Intern   Sep 2023 – Jan 2024
ANOR Technologies   *Singapore*
- Built a full-stack ML spectroscopy dashboard with React, FastAPI and PyTorch, collaborating directly with the CTO to define product scope and ship iterations under tight deadlines.
- Automated deployment of dashboard services by implementing a CI/CD pipeline using AWS CodePipeline, reducing manual release time.
- Researched the viability of spectroscopy for chemical compound classification through data processing, analysis and machine learning modelling. Presented the study to researchers at Home Team Science and Technology Agency (HTX).

Software Engineer   Apr 2023 – Aug 2023
Singapore Polytechnic, Industry Client Project   *Singapore*
- Led a team of developers to deliver a microservices-based Data Aggregator platform for Evvo Labs, enabling modular data ingestion and visualization.
- Designed and built the microservice architecture using Flask, PostgreSQL and Docker, ensuring the scalability and modularity of the back-end.
- Developed the front-end dashboard using React and Recharts, enabling customisable visualisation of data to improve user experience.

Projects

DevsGoWhere Telegram Bot - *t.me/devsgowhere*   Sep 2025 – Present
- Automated summarised event posts from devsgowhere.com via a TypeScript web scraper running as a daily cron job, improving community accessibility to event postings.

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 reliability before deployment.
- Used React Suspense to gracefully handle loading states, improving user experience.

GovTech GeekOut Hackathon - *3rd Place*   Jun 2023
- Developed an AI-powered learning management system with features such as AI tutors and shared inter-school resources, promoting meritocratic education.

Skills

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