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*
- Researched and implemented several segmentation model network improvements with PyTorch, leading to a 3% increase in image segmentation accuracy on production data.
- 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.
- Engineered a modular image segmentation model training workflow using PyTorch and TensorBoard, improving model training observability and data logging for the team.

Software Engineer Intern   Sep 2023 – Jan 2024
ANOR Technologies   *Singapore*
- Developed a full-stack spectroscopy analysis dashboard with React, FastAPI and PyTorch, collaborating directly with the CTO to define product scope and ship iterations.
- Automated deployment of dashboard services by implementing CI/CD pipelines 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.
- Architected and developed back-end microservices using Flask, PostgreSQL and Docker, enabling parallel development across 3 feature teams.
- Built the front-end data dashboard using React and Recharts, consolidating 2 data sources into a unified view.

Projects

Open Source Contributions - *Zen Browser, NUSMods*   Mar 2025 – Nov 2025
- Implemented scoped tab cycling within Essentials/Regular tabs for Zen Browser, a highly requested feature from users.
- Contributed fixes to Zen Browser and NUSMods during my free time in National Service.

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

justDCA - *just-dca.pages.dev*   Dec 2024 – Jan 2025
- Developed a web application to analyze and compare historical dollar-cost averaging (DCA) performance of listed stocks and visualize how DCA affects performance and price volatility. Built with TypeScript, React and FastAPI.

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