

Jared Chan Xu Yang

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Education

Singapore Management University, GPA: 4.0/4.0

Aug 2024 – May 2028

Bachelor of Science in Software Engineering | AY 2024/2025 Dean's List

Relevant Coursework: Algorithms and Programming, Data Management, Web Application Development

Clubs/activities: Teaching assistant for Data Structure & Algorithms, Fintech Club, Coders Assembly, Hack

Ngee Ann Polytechnic, GPA: 3.77/4.0

April 2019 – May 2022

Diploma in Business Studies + 'Digitalization Track' | 2x Director's List for academic excellence

Work Experiences

Incoming Software Engineer Intern

Government Technology Agency (GovTech)

Jan 2026 – May 2026

- Incoming Software Engineer Intern for Government Anti Scam Product Team

Software Engineer & Research Intern | [GitHub](#)

Singapore Management University

May 2025 – Aug 2025

- First author of AAAI 2025 (Demonstration Track) paper on an agentic platform for portfolio management
- Built GenAI-powered full-stack forecasting platform with Next.js/TypeScript frontend and FastAPI/Python backend
- Engineered customizable financial models (Markowitz, GMVP, RL) using PyTorch, NumPy, Pandas, and scikit-learn
- Integrated Claude API to auto-generate, edit, and execute AI-driven backtest/forecast models
- Engineered AI prompt templates with security validation for dynamic financial model generation
- Integrated live yfinance data streams and interactive dashboards, cutting backtesting and forecasting time by 60%
- Implemented OAuth authentication and PostgreSQL database for secure user management and data persistence

Projects

PrivacyLens / TikTok TechJam Hackathon | React Native, FastAPI, YOLO, OCR, Computer Vision | [GitHub](#)

- Led end-to-end development of a mobile app that detects and redacts sensitive video content before uploading
- Built an asynchronous FastAPI backend for frame extraction, detection models, and video processing pipeline
- Applied OCR to accurately identify credit-card numbers within frames for secure and automated handling

Smart Attendance | Coursework Project | Java, OpenCV, Computer Vision | [GitHub](#)

- Developed an OpenCV-based attendance system using Haar detection with LBP and HOG recognition
- Improved performance by using feature banks, cached results and frame skipping to maintain 15 FPS.
- Increased reliability by tuning thresholds and applying texture analysis to detect spoof attempts.

BiteSaver / Hack for Humanity | Top 5 out of 117 Teams | [DevPost](#)

- Led product planning and frontend wireframing for a platform connecting users to surplus food deals
- Created the user guidebook and demo video to communicate functionality and UX flow
- Collaborated with engineers to align product features with user and business needs

Leadership & Volunteering

Developer Director

Fintech Club, Singapore Management University

March 2025 – Present

- Spearheading a blockchain curriculum for over 30 student attendees, covering blockchain fundamentals, smart contracts using Solidity, and decentralized finance
- Led networking events attracting 100+ participants, serving as moderator for panels with industry professionals
- Moderated internal hackathons and represented SMU in external competitions, including the Visa Hackathon.

Education Director

Coders Assembly, Ellipsis, Singapore Management University

June 2025 – Present

- Developed lesson materials and practice questions in Python and JavaScript for 150+ incoming freshmen students
- Crafted coding clinics before exams to prepare students for lab tests and strengthen programming fundamentals

Technical Skills

Programming Languages: C++, Python, Java, Javascript, Typescript, PHP, SQL, CSS, HTML

Frameworks & Tools: React.js, Next.js, Vue.js, AWS, Git, Tailwind CSS, Numpy, Pandas, PostgreSQL

Certification: [AWS Certified Solution Architect - Associate](#)