Jamie Lim

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EDUCATION

Massachusetts Institute of Technology   Aug 2024–May 2028

Mathematics Major (Prospective Computer Science Double Major), Prospective Music Technology Minor・4.7/5.0

Asian Dance Team Cover Coordinator・Sport Taekwondo Treasurer・MIT Informatics Tournament Treasurer・MacGregor House Committee・
Dormitory Council Underclassman Representative・E33 (Lighting Technicians) Training Chair; Former: MIT Wind Electrical Team・The Tech
Technology Team・Spinning Arts

National University of Singapore (NUS) High School of Mathematics and Science   Jan 2018–Nov 2023

Diploma (High Distinction)・4.9/5.0・Honors: Mathematics/Computer Science・Majors: Physics/Chemistry・Best in Subject for CS
CS Coursework: Object-Oriented Programming, Android Apps, Data Analytics, AI [Tensorflow], Database Design [SQL], Networking
Netball Vice-Captain・Students' Council Outreach In-Charge・Green Interest Group Executive・Physics Interest Group Executive

National University of Singapore (NUS) Non-Graduating Program   Aug 2021–Jun 2023

CS Coursework: Intro to Operating Systems, Computer Organization; Math Coursework: Multivariable Calculus, Linear Algebra I/II

EXPERIENCE

Government Investment Corporation (GIC)・Software Engineer Intern   Singapore・Mar–Jun 2024

- Full-stack development and future-proofing of web-based tools/dashboards on centralized analytics and execution platforms
  for monthly rebalancing (Fixed-Income/Multi-Asset department of Singapore's sovereign wealth fund)
- Setup of sandbox environments for development, both locally and in deployment

Temus・AI & Data Intern   Singapore・Jan–Feb 2024

- Full-stack development of GenAI-powered tools (talent acquisition/development platform; prompt engineering training/testing
  site); revamped code architecture and enhanced codebase sustainability
- Planning/proof-of-concept creation for internal/client demonstrations (Temus is a digital transformation consulting firm)

Fabrica AI・Technical Intern (Software)   Singapore・Oct–Dec 2023

- Developed embedded software and hardware tests for an automatic tile-grouting robot
- Operated and debugged the robot in trial runs in the office; experimented to optimize robot performance/quality
- Demonstrated robot functionality to the startup's business partners on-site

Defense Science Organization (DSO)・Research Intern   Singapore・Mar–Dec 2022

- Developed reverse engineering tool that analyzes compiled binary files, automating the task of identifying known software
  vulnerabilities and their patches across 3 computer architectures; Singapore Science and Engineering Fair 2023 Finalists

AWARDS

Informatics Olympiads: IOI 2023 Bronze, APIO 2023 Silver, EGOI 2022/2023 Gold (Rank: 7/154, 8/189)   2018–2023

Mathematics Olympiads: APMO 2022 Honorable Mention, Tuymaada 2022 Silver,   2015–2023
CWMI 2019 Silver, Top 12 in Singapore IMO National Training Team in 2022/2023

Physics Olympiads: Singapore Junior Physics Olympiad 2021 Gold   2018–2022

PROJECTS

TheraScript・Computational Framework for Optimizing Therapeutics   Mar 2025–Aug 2025

- Tuned, evaluated and compared models to predict mRNA stability and efficacy for drug discovery

AdPeek・Top 3 in National AI Student Challenge   Feb–Mar 2023

- Led team of 4 pre-university students to win a hackathon by AI Singapore (>80 submissions, including university students)
- Designed and built a responsive React.js web application using AI Singapore's PeekingDuck computer vision pipeline to help
  businesses analyze the attractiveness/reach of their physical advertisements and viewer demographics

Diabuddy・Android Application for Diabetes Management   2020–2023

- Designed Android application in Java to make diabetes management more convenient and less stressful for patients
- Features: analyze glucose trends, send warnings/advice, track injection sites to prevent overuse/reduced insulin efficacy
- As a Type 1 Diabetic, I tapped on personal experience and conversations with nurses to build meaningful, unique features

PROJECTS (continued)

Codebreaker・Singapore's Informatics Olympiad Training Platform   2020–2023
- Developed front-end features with Flask/Bootstrap ([Codebreaker](#) has run official Singapore/Indonesia IOI team selection)
- Tracked AWS expenses and managed community donations as Finance In-Charge

Finding Colorful Trails・Top Prize in Singapore Mathematics Project Festival (Junior)   Jul 2019–Jun 2020
- Graph Theory research project: traversing colored edges on a graph such that no color is used more than once
- Published in Singapore Mathematical Society Mathematical Medley Vol. 46 No.1

SKILLS

Web	*React, Redux, Flask, Bootstrap, FastAPI*
DevSecOps	*Apache Airflow, Docker, GitHub/GitLab, OpenShift/Kubernetes/Helm*
Database	*SQL, Amazon Web Services, Google Cloud Platform, MongoDB*
Robotics	*Embedded Software, Automated Hardware Testing, Robot Operating System*
Languages	*[Programming] Python, TypeScript/JavaScript, HTML/CSS, C/C++, Java/JavaFX*
	[Natural] English (native/bilingual), Mandarin (native/bilingual), German (elementary)