

Jamie Lim

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EDUCATION

Massachusetts Institute of Technology

Aug 2024–May 2028

Mathematics and Computer Science Double Major, Prospective Music Technology Minor • 4.6/5.0

CS/Math Coursework: Software Construction, Computer Systems Engineering, Operating System Engineering, Computer Systems and Society, Design and Analysis of Algorithms, Theory of Computation, Real Analysis, Topology

Humanities Coursework: German I, Introduction to Linguistics, Harmony and Counterpoint I, MIT Laptop Ensemble

Asian Dance Team Captain • Sport Taekwondo Treasurer • MIT Informatics Tournament Treasurer • MacGregor House Committee • E33 (Lighting Technicians) Training Chair

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], SQL Database Design, 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 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, CWMI 2019 Silver,
Top 12 in Singapore IMO National Training Team in 2022/2023

2015–2023

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

PROJECTS (continued)

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

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)