

Jamie Lim

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EDUCATION

Massachusetts Institute of Technology	Aug 2024–May 2028
<i>Mathematics and Computer Science Double Major, Prospective Music Technology Minor • 4.6/5.0</i>	
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
<i>Diploma (High Distinction) • 4.9/5.0 • Honors: Mathematics/Computer Science • Majors: Physics/Chemistry • Best in Subject for CS</i>	
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
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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
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Physics Olympiads: Singapore Junior Physics Olympiad 2021 Gold	2018–2022
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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	
- 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)