

James Ngai

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Education

Carnegie Mellon University

May 2026

- Bachelor of Science, Computer Science — GPA: 4.0/4.0

Issaquah High School

June 2022

- GPA: 3.99/4.00 — 10 AP Classes with a 4.8/5 average

Relevant Coursework

- Data Structures and Algorithms, Linear Transformations, Multivariate Calculus, Concepts of Mathematics

Experience

Allstate Hale Insurance

Scrub Software Developer <https://github.com/james-ngai/Allstate-Programs>

June 2018-Present

- Led development of mailer ad software for 47,000 prospective clients saving \$5000 annually
- Deduced mathematical optimization methods for maximized data capture, increasing ad efficiency 27%, improved runtime 75% by implementing Python API multithreading

Expil

Teaching Assistant for the Dr. Po-Shen Loh Team

February 2022-Sept 2022

- Co-teach classes of 40 students for AMC and MATHCOUNTS competitions, improvise with Co-TA to increase student engagement, and debug software on company website during renovations
- Mentor 10 junior TAs during monthly meetings to integrate newer and more experienced TAs by playing team-building games and discussing improvements to classes

Activities

Da Vinci Institute

Executive Vice President and Co-Founder

2020-Present

- Negotiated nonprofit Google Suite accounts to organize tutor resources with cohesive file management

Robotics

Project Head

2020-2022

- Initiated 20 team member project to produce an AI chatbot to streamline online sponsorship interactions

AI Club

Director of Events

2019-2022

- Created instructional material for 34 members in regression, classification, and clustering algorithms

Skills

Technical: Python • Java • C • Git • Pandas • NumPy • Scikit • LaTeX • Excel • Google Suite

Languages: English (Native) • French (Proficient) • Cantonese (Limited Proficiency)

Selected Awards

- AMATYC Student Math League 4th in the nation 2021
- DECA ICDC Certificate of Excellence (Top 1% of all competitors) 2021
- Robotics Team 8th in FIRST Game Design Challenge 2021
- Student Recognition Award(2x) by Teacher Nomination 2018, 2021