

# Michael Li

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## EDUCATION

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**Carnegie Mellon University, B.S. in Statistics and Machine Learning** 2022 – *Expected Graduation (2026)*

- Incoming freshman, planning to take an additional major in Artificial Intelligence
- Current Courses: 15-112: Fundamentals of Programming and Computer Science, 21-259: Calculus in Three Dim.

**Amador Valley High School, Pleasanton, CA** 2018 – 2022

- AP Courses: Computer Science A (5), Calculus BC (5), Statistics (5), English Literature and Composition (5)
- SAT (1580/1600)

## EXPERIENCE

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**Research Intern, University of Victoria** June 2021 – Present

- Worked with Professor Xuekui Zhang to implement machine learning models to predict COVID outcomes in Canadian provinces based on U.S. county demographic data.
- Paper pending publication “A website-based application for predicting and monitoring the daily counts of COVID-19 infection”

**Founder & Developer, COVIDCatcher (<https://www.c0vidcatcher.org>)** 2021 – Present

- Developed a low-cost, multimodal, machine learning based app for detecting COVID-19 symptoms and coughs
- Objective: To help immunocompromised and elderly understand symptoms w/o leaving the safety of their homes
- Bay Area BioGENEius Finalist - presented to panel of biotechnology leaders (see my poster [here](#))

**Software Engineer, Amador Valley High School Robotics Club** 2018 – 2022

- Won 2nd place in 2022 against top universities in the RoboNation International RoboSub Competition
- Wrote code leveraging OpenCV for object detection and image processing to detect pathmarkers
- Coordinated with machine learning team to create ML workflows for real-time object detection

**Lead Tutor, ACE Coding Club** 2020 – 2022

- Created and taught advanced C++ programming course to middle schoolers and high schoolers from nearby school districts, covering topics from recursion to inheritance.
- Built and demoed a neural network detecting face-masks from video feed in real-time using OpenCV.

**Software Developer Intern, Omou Learning** June 2020 – 2021

- Omou is a digital learning space for tutoring centers to connect student, parent, and teacher communities.
- Built Google Classroom integration to enable users to sign in via Google and invite/unenroll students
- Worked with React framework and built features using HTML, CSS and JS

## SKILLS

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- Java (4+ yrs.), Python (4+ yrs.), C++ (4+ yrs.), Web Design using *WebFlow* (2+ yr.), Web development using HTML, CSS, JS (4+ yrs.), Piano (12 yrs.)

## AWARDS & RECOGNITION

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- **California Science and Engineering Fair**, Qualifier, 2021 and 2022
  - **Synopsys Alameda County Science and Engineering Fair**, First Place in Systems Software, Computer Science and Programming, 2022
  - **Bay Area BioGENEius Challenge**, Finalist, 2021
  - **Synopsys Alameda County Science and Engineering Fair**, First Place in Mathematics/Computer Science, 2021
  - **HackItShipIt Hackathon**, First Overall, 2020
  - **Data Day Grind Hackathon**, Best Data Visualization, 2020
  - **United States Open Music Competition**, First Place - Showcase Piano Solo Senior, 2022
  - **MTAC Alameda County East Piano Competition**, First Place - Division D(Senior), 2022
  - **National Merit Scholarship Corporation**, Finalist, 2022