Michael Li

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EDUCATION

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

- Planning to declare an additional major in Artificial Intelligence
- Completed Courses: 15-112: Fundamentals of Programming and Computer Science, 21-259: Calculus in Three Dim., 36-202 Meth. for Statistics & Data Science, 21-127: Concepts of Mathematics, 15-122: Principles of Imperative Computation
- Cumulative GPA: 3.81

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

Software Engineer Intern, Stealth *2022 – Present*

- Avatar-based platform that provides evidence-based support and preventive health activities for caregivers and older adults. Backed by the NIH and developed by Harvard and Stanford researchers
- Deployed OpenAI's speech recognition neural net **Whisper** in **Python** and evaluated model performance..
- Utilized **React** to create a web-app demo of virtual talking assistant for elderly people.

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

- Worked with Professor Xuekui Zhang to implement machine learning models with **Python** to predict COVID outcomes in Canadian provinces based on U.S. county demographic data.
- Published as feature article in the Journal of Global Health: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10208648/pdf/jogh-13-03029.pdf

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 with **Python**, **Tensorflow**, and **VGG-19**
- 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** and **C++** for **object detection** and **image processing** to detect pathmarkers
- Coordinated with machine learning team to create ML workflows for real-time object detection and convert **C++** code to **Python**

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

- Java (6+ yrs.), Python (5+ yrs.), C++ (5+ yrs.), Web development using React, HTML, CSS, JS (5+ yrs.), R (1 yr) Piano (12 yrs.)

AWARDS & RECOGNITION

- **California Science and Engineering Fair**, Qualifier (COVIDCatcher), 2021 and 2022
- **Synopsys Alameda County Science and Engineering Fair**, First Place in Systems Software, Computer Science and Programing (COVIDCatcher), 2021 and 2022
- **Bay Area BioGENEius Challenge**, Finalist (COVIDCatcher), 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