

Hwanjun (Michael) Yi

152 Spectacle • Irvine, California 92618 • 23yimichael@gmail.com • (949)-564-2424

Education

Portola High School

Irvine, CA
2019-2023

- **GPA:** 3.92 (UW), 4.35 (W)
- **SAT:** 1530, 740 (R/W), 790 (M)
- **AP Scores:** AP Calculus BC (5), AP Computer Science A (5), AP Computer Science Principles (5), AP Human Geography (5), AP Physics 1 (4), AP United States History (5)

Coastline Community College

Fountain Valley, CA
September 2022-December 2022

- **Coursework:** Multivariable Calculus (Math C280)

Experience

health{hacks}

Stanford, CA

VP of Sponsorships & Finance, 5 hrs/week, 36 weeks/year

April 2022 – Present

- Organized in-person healthcare hackathon @ The Hub at Stanford Research Park with ~180 participants.
- Cold-emailed 1,000+ companies, startups, and VC firms for sponsors.
- Raised ~\$26,000 in monetary sponsorship funds for the event.
- Accounted all event transactions and receipts, distributed reimbursements for event directors.

UCI McNaughton Lab

Irvine, CA

Research Intern, 10 hrs/week, 4 weeks/year

September 2022 – Present

- Researching at a neuroscience lab with two Ph.D students in studying how neural dynamics and cognitive conditions influence learning.
- Constructing LSTM models and convolutional neural networks to detect sharp-wave ripples in the hippocampus, training models based on dataset collected from experiments conducted on mice.
- Contributing to the Lifelong Machines Program to drive novel achievements in computational architectures and neural networks.

HealthRelay

Irvine, CA

Co-Founder, Co-Chief Executive Officer, 4 hrs/week, 36 weeks/year

November 2021 – Present

- Developing software that streamlines communication between radiologists and ordering physicians.
- Implemented data encryption algorithms to ensure security of sensitive electronic health records.
- Business pitch named Top 25 Finalists @ 2022 Blue Ocean Student Entrepreneur Competition (~600 submissions, ~2,000 participants).
- Currently beta testing w/radiologists @ Kaiser Permanente, contacting venture capitalists in regards to funding of software.

USC Intelligence and Knowledge Discovery Research Lab

Los Angeles, CA

Research Intern, 21 hrs/week, 7 weeks/year

June 2022 – July 2022

- Conducted research under Prof. Xiang Ren through the USC SHINE (Summer High School Intensive in Next-Generation Engineering) summer research program.
- Applied natural language processing and computer vision to enhance generative commonsense reasoning.
- Developed an AI model that generates coherent sentences given their respective keywords and a corresponding image.
- Wrote data preprocessing algorithms that reformatted CommonGen dataset to VL-T5 VQA dataset.

RetinaOCT

Irvine, CA

Founder and President, 3 hrs/week, 32 weeks/year

November 2021 – Present

- Constructed a convolutional neural network that conducts deep-learning based optical coherence tomography analysis.
- Achieved 90% accuracy with a 95% validation accuracy in diagnosing retinal damage using a dataset consisting of nearly 100,000 OCT scans.
- Led a team of 10 students in developing a mobile application that implements AI to improve diagnosis of retinal disease and optimize patient data access through weekly Zoom conferences.
- Wrote an abstract pending acceptance @ Sigma Xi's 2022 IFoRE Student Summit Research Conference.

Northwood Little League

Irvine, CA

Volunteer Umpire, 8 hrs/week, 16 weeks/year

August 2019 – Present

- Provided impartial calls and ensured fairness in baseball games for kids.
- Served as both plate and base umpire for players of ages ranging 8-13.
- Nominated to be playoff umpire due to high experience.
- Recruited 6+ volunteers to the NWLL umpiring crew.

Portola HS American Computer Science League Team

Irvine, CA

Team Captain & Club Vice President, 2 hrs/week, 16 weeks/year

August 2021 – Present

- Held weekly lectures teaching ACSL material, proctored practice exams for team members.
- Individually ranked #1 at school with a score of 35/40, led team to qualify for 2022 ACSL Finals Round.

Awards and Honors**2022 Congressional Award Silver Medalist**

National

2022 Blue Ocean Student Entrepreneur Competition Top 25 Finalist

International

2021 Congressional App Challenge CA45 District Finalist - Third Place

Regional

2020 USA Computing Olympiad Silver Qualifier

International

2022 American Computer Science League Finalist

International

Hackathons

- **2022 Unlock Hacks "Best Environmental Hack"**
- **2022 Coding Your Future Hackathon Second Place**
- **2022 PennApps & WUHC Health Hacks "Best Access to Healthcare Hack"**

International

International

International