

QING YANG

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Claremont CA, 91711

Education

Harvey Mudd College, Claremont, CA

Expected May 2023

- Bachelor of Science, Computer Science
- Courses: Introduction to Computer Science, Principles of Computer Science, Programming Practicum, Autonomous vehicles, Financial Economics, Probability and Statistics

Anglo-Chinese School (Independent), Singapore

Jan 2017 - Nov 2018

Nan Hua High School, Singapore

Jan 2015 - Nov 2016

- Singapore Ministry of Education **Full Scholarship for 4 consecutive years**
- **Dean's List** of Math and Chemistry; **Level Top** in Math, Chemistry, Biology and Physics
- **European Organization for Nuclear Research**: selected participant of quantum Physics program

Skills

Python>Java=JavaScript=HTML; Darknet Neural Networks, Adobe Photoshop; English, Mandarin, Spanish.

Related activities

Underwater Robotics

Sep 2019 -Present

- Manage the Vision project which enables our autonomous underwater vehicle to navigate under water and accomplish a series of game tasks. Utilize Darknet Neural Networks and C & YOLO: Real-Time Object Detection. Code with Python. Will compete in RoboNation-RoboSub competition in 2020.

Study Cloud website development

Sep 2019 -Present

- Code with JavaScript D3 library and HTML for front-end web development. Study Cloud is a website for sharing student resources, built to benefit generations of future high school and college students.

Personal website

Oct 2019 -Present

- Code with JavaScript and HTML for an interactive and animated portfolio website.

Capture the Flag (CTF) cybersecurity competition

Sep 2019 -Present

- Compete in the areas of web vulnerabilities, forensics, binary exploits/reverse engineering, cryptography, and networking.

HMC Activities: Robotics Team, Study Cloud Club, Makerspace Club (engineering projects), Cybersecurity club, Women's Association of Computing Machinery, Society of Women Engineers

Sep 2019 -Present

High School Activities: National Science Experiment Big Data Challenge; Google Science Journal Challenge;

MAKE Fair (for science innovations), **Organizer**

May 2017 - Sep 2018

Online course: Java Programming Masterclass for Software Developers by Tim Buchalka

and **Machine Learning** offered by Stanford

Jul 2019 - Present

Research: wind mechanics, Bisphenol-A degradation via advanced oxidation process, tea residue as an

alternative to remove copper from wastewater, Game Theory in applied Mathematics

Jan 2017 - Nov 2018

Patents: eye surgery recovery mask, energy-saving trash bin, reconfigurable power strip

2017 - 2018

Internship

Cambodian Organic Agriculture Association, Marketing intern

May 2017 - Jun 2017

Wings College Prep (US), Marketing intern

Mar 2017 - May 2017

Volunteer

Aurora Project for mentally challenged individuals, **Founder**

Jan 2017 - Present

Son-Rise Program (US) for autistic children, **Trained volunteer**

May 2017 - Jun 2018

Dorm Council, **Administration committee**

Feb 2016 - Oct 2018

Hand-in-Hand Project (neighborhood tutoring), **Founding member**

Jan 2016 - Dec 2016