

Education

University of Pennsylvania

Philadelphia, PA

Jerome Fisher Program in Management and Technology (M&T); GPA: 4.00

August 2019 - Present

- Bachelor of Science in Engineering (Computer Science) candidate from Penn Engineering
- Bachelor of Science in Economics (Management) candidate from the Wharton School
- Completed Coursework: Data Structures and Algorithms, Programming Languages and Techniques, Mathematical Foundations of Computer Science, Engineering Probability, Corporate Finance, Accounting and Financial Reporting

Hong Kong International School

Hong Kong

High School Diploma; GPA: 3.94

August 2015 - July 2019

Experience

University of Pennsylvania

Philadelphia, PA

Teaching Assistant, Data Structures and Algorithms

September 2020 - Present

- Co-lead weekly recitation of size fifteen, hold office hours, grade homework and exams, answer student questions online; member of committee tasked with improving quality of programming assignments

Teaching Assistant, Management & Technology Summer Institute (M&TSI)

June 2020 - July 2020

- Worked with a team of six to convert in-person electrical engineering labs (Arduino) to suit online learning
- Led daily lab sessions of size twelve; ran office hours; oversaw the technical feasibility of nineteen final projects

Penn Labs

Philadelphia, PA

Software Engineer

January 2020 - Present

- iOS developer for Penn Mobile that serves over 2000 active weekly users in the Penn community
- Used Swift and UIKit framework to implement features that display user's weekly schedule and 4-digit security code
- Spearheaded dining redesign effort in SwiftUI; set up initial infrastructure to aid future incorporation of SwiftUI
- Used React and Django to aid the Penn Clubs team ramp up the clubs platform to host Penn's virtual club fair

Penn Electric Racing

Philadelphia, PA

Software Engineer

Aug 2019 - Present

- Used Vue to create a data processing dashboard used by the mechanical team to analyze car's performance
- Created ROS node that sends signals to affect car's state in the Gazebo simulator depending on keyboard input

The University of Hong Kong

Hong Kong

Independent Researcher, Department of Civil Engineering

Sep 2018 - Mar 2019

- Researched into Dye Sensitized Solar Cell at Prof. Shien Ping Feng's Electrochemical Laboratory
- Developed novel process to fabricate effective ordered mesoporous carbon counter electrodes
- One of six research projects to represent Hong Kong at the 70th Intel International Science and Engineering Fair

Hong Kong University of Science and Technology

Hong Kong

Summer Intern, Department of Physics

Jun 2018 - Jul 2018

- Interned at Prof. Gyu-Boong Jo's Fermionic Quantum Simulator Lab
- Used Raspberry Pi and DS18B20+, SHT71 sensors to create a LAMP stack that records and displays live temperature and humidity values of the lab's quantum simulator

Awards and Projects

70th Intel International Science and Engineering Fair Finalist: One of six projects to represent Hong Kong

NavCharger: Wireless charger with moving coils powered by a RaspberryPi that locates devices using OpenCV