

Yuet Ming Leung

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Education

Cornell University - College of Arts and Sciences

Aug 2018 — May 2022
(Expected)

- B.A. in Computer Science — 4.0 GPA
- Dean's List for College of Arts and Science (all semesters)
- Coursework:
 - Algorithms, Honors Discrete Structures,
 - Object-Oriented Programming and Data Structures,
 - Functional Programming, Computer Graphics, Backend Development

Experience

Cornell University Autonomous Underwater Vehicle

Software Co-Lead [Aug 2019 — Current]

Software Member [Oct 2018 — Aug 2019]

- Created vision modules for the underwater vehicle to identify mission elements using computer vision
- Developed a new automated testing software for vision modules
- Lead software meetings twice a week to assess and follow-up on team progress
- Programmed autonomous missions for the vehicle using a custom mission system, including gate navigation, pinger tracking, buoy ramming and torpedoes tasks
- Finalist in Association of Unmanned Vehicle System International's 2019 RoboSub competition

Diocesan Boys' School Design and Technology Engineering Team

Programming Lead [Dec 2016 — May 2018]

- Lead the software component of the engineering projects on a team of 10 students
- Designed an automated liquid cooling system for a self-cooling smart glass controllable using an app
- Placed first in Hong Kong University of Science and Technology's Paper Tower Challenge

Cornell Computing and Information Science: Introduction to Computing Using Python

Consultant [Aug 2019 — Current]

- Conducted two labs per week and hold consultant office hours
- Graded assignments, preliminary exams and finals

Projects

Cornell Creatives

Backend Application [Sep 2018 — Dec 2018]

- Designed an application to connect freelancers with potential customers
- Wrote a RESTful API for an iOS application using flask
- Setup a virtual environment for the application and dockerized it

CourseNotifier

Python Script [Sep 2019 — August 2019]

- Created a script that scrapes the Cornell Class Roster using an html parser to check for class openings
- Integrated the Twilio api to instantly send sms messages to the user the moment a class becomes open
- Made the script customizable using ini configuration files and added an error logger
- Daemonized the script using systemd and ran it on a headless raspberry pi

Programming Languages: python, java, C#, OCaml, C++

Languages: Fluent in English and Mandarin and Cantonese

Software: OpenCV, git, L^AT_EX, bash, unix, vim, docker, flask