

Charles Liu

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EDUCATION

Class of 2023

UCLA, CA

Freshman student, Computer Science

Class of 2016

Raffles Institution, Singapore

Singapore Cambridge GCE A Level

TECHNICAL SKILLS

Web development – HTML, CSS, Bootstrap, Javascript, NodeJS, Express, MongoDB

Python – General scripting (file systems, http requests and web APIs, data manipulation, etc.), Object-Oriented Programming, Computer Vision tools (OpenCV, ZBar, Tesseract, OpenALPR)

Arduino – Arduino programming language, I/O shields, sensors, servos and DC motors

PROFESSIONAL EXPERIENCE

MARCH 2019– OCT 2019

Intern(Technical Business Development), Bosch Building Technologies, Singapore

- Wrote the program used to collect data from physical devices in a building using MQTT and send it to a cloud platform as part of a smart building project.
- Wrote scripts to automate the collection and analysis of camera object detection metadata
- Implemented various IoT proofs-of-concept involving Video Analytics on Security Cameras

PROJECTS

CRUD Blog Application

- Web app utilizing RESTful routing created using Semantic UI, NodeJS, Express and MongoDB
- Personal project used to learn web development

Robotics Projects

- Lead programmer of team of 5, participated in various competitions requiring the completion of different tasks such as line tracking and object retrieval
- RoboCup International Leipzig 2016: 3rd for Rescue Line Superteam Category
- RoboCup Singapore Open 2016: 1st for Rescue Line Category

OTHER EXPERIENCE

OCT 2019 – PRESENT

Internal Tools Intern at Daily Bruin Online (Web Development)

SEPT 2019 – PRESENT

Member of Unmanned Aerial Systems@UCLA, Computer Vision Subteam

SEPT 2019 – PRESENT

Member of ACM UCLA