James Young

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Education

The Hong Kong University of Science and Technology — Hong Kong
BEng in Electronic Engineering - Minor in Information Technology — *Sept. 2020 – Present*

- **GPA:** 3.02
- **Relevant Coursework:** Programming with C++, Object-Oriented Programming and Data Structures, Intro. to Computer Organization and Design, Computer Communication Networks, Intro. to Embedded Systems, Deep Learning in Computer Vision, Machine Learning and Information Processing for Robotics

Skills

Programming Languages: Javascript, C, C++, Python
Frameworks: ReactJS, Django
Tools/Software: Git, Linux
Languages: English (Native), Mandarin (Conversational)

Work Experience

IoT Intern | Graphite Venture Limited — December 2022 – May 2023
C++, ESP32, Arduino — *(Full and Part Time)*

- Developed Arduino libraries for reading water sensor data with ESP32 and sending sensor data to AWS through MQTT with a SIM7600G module.
- Created an Arduino library for communicating to multiple ESP32 with ESP-Now protocol.

Projects

HTTP 1.1 Web Server | *C*

- Created a simple HTTP 1.1 web server in C that is able to serve static web pages and images to a client's web browser.
- Uses concepts of socket programming to connect client and server and HTTP protocol to serve files.

To-Do List

- Created a to-do list website using Django framework with user authentication and ability for user to create, update, and delete each task.
- Deployed Django application on an AWS EC2 instance with Docker using Gunicorn, Nginx-Proxy, Letsencrypt, and Postgres as database.

Tic-Tac-Toe with Minimax | *C++*

- Created a terminal tic-tac-toe game with option to either play against AI or another person.
- AI uses minimax algorithm to determine the best move each turn. Used tree data-structure for storing different board states in each turn.

Extracurricular Activities

- HKUST Football Team — Jan. 2021 - Present