mshuang2001@gmail.com
909-672-8755

MICHAEL HUANG

LinkedIn: Mshuang2001
Github: Huangmichael94

TECHNICAL SKILLS

- Tools and Languages: **Python**, **Java**, **C++**, HTML, CSS, Assembly, Bash, Git, Unix, Linux.

EDUCATION

San Diego, United States   **University of California, San Diego**   **Expected June 2024**

- B.S. in Computer Science.
- Relevant Coursework: **Java & OOP; Data Structures & OOD; Discrete Mathematics; Mathematics for Algorithms and Systems; Systems Programming; Operating Systems; Computer Architecture & Logic.**

EXTRACURRICULAR AND VOLUNTEER EXPERIENCE

Onboard Computer Developer   **Triton Unmanned Aerial Systems**   **September 2023 – Current**

- Rewrote navigation software from **Python** to **C++** to improve performance.
- Overhauled coordinate and distance conversion algorithms to improve accuracy and precision of navigation.
- Rewrote and implemented more comprehensive **errors** and **unit tests** for navigation algorithms.
- Organized workshops for **Git** and **Unix** to help onboarding team members.

AP Computer Science T.A.   **Citrus Valley High School**   **August 2017 – June 2019**

- Taught students software engineering practices and the fundamentals of **Java and OO programming**.
- Created quadcopter programming curriculum in **C++** to teach students principles of low level design.
- Created basic **HTML** and **CSS** tutorials to organize a class and student websites.

Robotics Technician Lead   **Citrus Valley High School**   **August 2015 – June 2017**

- Worked in teams to design and build robots and compete in the 2016 and 2017 VEX Robotics competition.
- Guided team members with the designing and building process of the robots.
- Directly responsible for inventory management and hardware upkeep for several classes of engineers.

EMPLOYMENT

Customer Service Associate   **Lowe's Home Improvement**   **January 2021 – May 2021**

- Worked with professional clients to identify and resolve credit and technical product issues.
- Helped management with housekeeping duties during busy periods to improve department productivity.

PROJECTS

San Diego Zoo Route Planner   **UCSD CSE 100, Spring 2022**

- *Https://github.com/HuangMichael94/ZooSeeker/*
- Worked within a **scrum** team to develop solutions to improve zoo visitor navigation.
- Developed an Android app that interacts with the Google Maps API to plan routes between zoo exhibits.
- Extensive focus on testing with **JUnit** and **RoboElectric**.
- Used story point estimation using the Fibonacci and scrum poker methods.
- Regular standups, sprints, retrospectives, and task estimation.
- Implemented user stories are defined by San Diego Zoo staff to fulfill acceptance criteria.

BestCities4CS Research Project   **UCSD COGS 108, Spring 2020**

- *Https://github.com/HuangMichael94/BestCities4CS-Research-Project/*
- Analyzed the best place to live by salary for UCSD computer science undergrads completing their studies.
- Implemented methods of data cleaning, sorting, and summarization with **Pandas**.
- Conducted web scraping of Glassdoor job postings using **Selenium**.