

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

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

San Diego Zoo Route Planner UCSD CSE 100 SP22

- <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 SP20

- <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**.

Onboard Computer Developer	Triton Unmanned Aerial Systems	September 2023 – Current
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- Rewrote navigation software from **Python** to **C++** to improve runtime.
- Overhauled coordinate and distance conversion algorithms to improve accuracy and precision of navigation.
- Rewrote and implemented more thorough **errors** and **unit tests** for navigation algorithms.
- Organized workshops for **Git** and **Unix** to help onboarding team members.

AP Computer Science Tutor Citrus Valley High School August 2017 – June 2019

- Taught students software engineering practices and the fundamentals of **Java and OO design**.
- 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
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- 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.

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.