

Haoting Huang

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EDUCATION

University of California San Diego

La Jolla, CA

Mathematics - Computer Science (B.S.), Minor in Data Science

Sept. 2022 – June 2025

- **Coursework:** Data Structures, Algorithms, Machine Learning, Computer Organization, Theory of Computation, Applied Statistics, Discrete Math, Linear Algebra, Optimization, Business Analytics, Frontend Development

TECHNICAL SKILLS

Languages: Java, Python, C, C++, SQL (PostgreSQL), JavaScript, HTML/CSS, Assembly

Frameworks: Django, ReactJS, Node.js, JUnit, Flask

Technologies: Git, Docker, Javadoc, Vim, Bash, npm, pip, REST, Docker, Agile, Power BI, Unix

Libraries: NLTK, scikit-learn, SciPy, pandas, NumPy, Requests, pycopg, Matplotlib, Axios, Cheerio

EXPERIENCE

Department of Defense – National Guard Bureau

Moreno Valley, CA

Software Engineering Intern

Mar. 2023 – June 2023

- Implemented **API requests** to query MQ-9 drone classified database and distribute relevant information in a catered dashboard, leading to a 20% increase in response time during testing
- Developed mock-up prototypes to improve CalFire fire & incident response **intelligence sharing system** across local/county/statewide entities with **Django**

Hacking for Defense

La Jolla, CA

Product Development Intern

Jan. 2023 – Mar. 2023

- Conducted **20+ interviews** across nationwide defense/first response agencies to analyze intelligence flow, system flaws; leveraged stakeholders' understanding for testing and cross-validation of user opinions
- Coordinated with engineers and leadership entities relevant to problem set to understand **buy-in** requirements, **interest conflicts** in complex bureaucratic process of the Department of Defense

LEADERSHIP

Association for Computing Machinery (ACM) @ UCSD

La Jolla, CA

Events Team Board Member

Oct. 2023 – Present

- Hosted technical computing workshops and social events
- Managed events logistics, cross-team and external communications for **200+ events annually** totalling over **\$60,000** of club expense

Triton Baja SAE @ UCSD

La Jolla, CA

Web Developer

Mar. 2023 – Present

- Designed and implemented responsive webpage for off-road racing team, animations with **CSS**, component formatting and organization with **ReactJS**

PROJECTS

Price Quantitative Analysis Tool | *Node.js, Python, Pandas, NumPy, PostgreSQL, pycopg* June 2023 - Present

- Created a **Node.js webscraper** to log item details from **HTML** site elements to collect data
- Communicates between **PostgreSQL** database and updated **JSON** file of scraped tabular data with **pycopg**
- Conducts **data analysis** using **pandas** and generates purchase advice based on current price against historic trends, leading to improved decision making

Video Sentiment Chrome Extension | *ReactJS, Pandas, NLTK, sklearn, SciPy*

October 2023 - Present

- Tokenized words with Python NLP toolkit **NLTK**, conducted sentiment analysis using classifier models **RoBERTa**, **VADER** for ensemble learning and cross-validation of video response consensus
- Created Chrome extension front-end interface with **ReactJS** and **Chrome API**

Discord Bot – Voice Chat Jammer | *Node.js (discord.js)*

June 2023 - July 2023

- Used **discord.js (Node.js module)** to interact with **Discord API** - plays a loud, interruptive sound when a specified user is speaking