

# Christopher Mason

chrismason609@gmail.com | 281-753-7868 | github.com/cmason145

## Education and Honors

**University of California Santa Cruz**, Baskin School of Engineering

Santa Cruz, CA

B.S Computer Science

September 2020 - May 2024

- Cumulative GPA: 3.8/4.0
- Relevant Coursework: Intro Python, Programming Abstractions in Python, Computer Systems and Assembly, Applied Discrete Mathematics, Vector Calculus, Linear Algebra, General Chemistry 1-2
- Clubs: Slugs Fund Investment Group, Slugbotics
- Honors: Deans Honor List 2020-2021 Academic Year

## Professional Experience and Leadership

**UC Santa Cruz Genomics Institute.**

Santa Cruz, CA

*Undergraduate Research Intern, Braingeneers*

July 2021 - present

- Implemented algorithms to transition 10TB of data from Kubernetes servers to AWS S3 servers using Docker and rclone
- Used numpy and pandas in Python to analyze which data sets were worth preserving, and which were worth discarding, in order to cut fees the lab pays to the S3 service
- Worked with other researchers, including presenting finds at meetings of UCSC and UCSF professors to efficiently categorize data using SQL

**Trader Joes**

Milpitas, CA

*Crew Member*

September 2020 - August 2021

- Worked as a crew member to facilitate an enjoyable shopping experience for the customer, while also being a valuable member of a 20-person team
- Oversaw a team of crew members to design sections, as well as organize backstock of the store to be as efficient as possible with space given

**Student Volunteer Lead**

Fremont, CA

*Tri City Band Corps*

May 2019 - August 2019

- Taught and led a group of elementary and middle schoolers during the summer to learn and perform music for a final concert. Helped with organizing the volunteer sessions

## Projects

**Spike Sorting Algorithm**

- Implemented a spike sorting algorithm using Python data science modules and data visualization tools in order to display data from UCSF experiments on a local website using HTML and Dash Plotly

**Personal Website**

- Created a personal website using Python Django as the backend, and using React.js as the frontend framework, as well as styling with HTML and CSS
- Connected it to Spotify API to play music

## Skills

- **Programming Languages:** Python, MATLAB, Java, JavaScript, C
- **Data Science & Web Development & Other:** Docker, SQL, Python (numpy, pandas, matplotlib, django), rclone, AWS CLI, React.js, HTML, CSS, Git, OOP, OOD