

# GAVIN AGUINAGA

Los Angeles, CA

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## Education

### University of California, Santa Cruz

*Bachelor of Science in Computer Science*

September 2020 – June 2022

*Santa Cruz, CA*

### Los Angeles Mission College

*Associate of Science Degree in Computer Science*

February 2018 – June 2020

*Los Angeles, CA*

## Projects

### YShell | C++, Unix, Terminal, Bash

Winter 2022

- Created a scripting shell, similar to Bash, with a virtual inode file system using C++.
- Designed the virtual inode file system using shared pointers and file class polymorphism.
- Replicated various Bash shell commands such as, rm, ls, pwd, cat, mkdir, and cd.
- Tested program and debugged memory leaks using Valgrind and GDB.

### Medicine Tracker | React, Express, Node.js, MongoDB, Material UI, OpenAPI

Fall 2021

- Developed a web application, with 5 team members, to help users manage their daily medications through in-app planners and reminders.
- Designed wireframes and prototypes on Figma, streamlined frontend development.
- Created reusable frontend components using React and Google's Material-UI library for a fast and responsive user interface.
- Integrated Google's sign-in API for secure user authentication, reduced development time by 25%.
- Implemented the backend server with Node.js and fetched data using Express.js routes.

## Work Experience

### IDEASS Lab at UCSC (MyPantry)

January 2022 – June 2022

*Software Engineer Intern*

*Santa Cruz, CA/Online*

- Contributed to development of a web application that informs UCSC students about local food pantries and their offerings.
- Modernized flagship product to fit current browser standards, introduced CRUD functionality using Mongoose and MongoDB.
- Implemented test coverage using jest (100% coverage), enforced linting/code standards using ESLint/Prettier, and continuous integration/deployment on Github.
- Collaborated in an agile manner with cross-functional team sprints, participated in 100% of daily scrums.

### Los Angeles Mission College

August 2019 - December 2022

*Math Tutoring Coordinator*

*Los Angeles, CA/Online*

- Led the quick transition of the Math Center from on-campus to online, ensuring a smooth and uninterrupted learning experience for students.
- Facilitated group tutoring sessions using Canvas and Zoom platforms, employing interactive teaching techniques to enhance comprehension and engagement.
- Worked closely with fellow professionals to efficiently coordinate student resources and schedules, fostering a collaborative and organized learning environment.

## Skills

**Programming Languages:** C,C++, Python, HTML/CSS, JavaScript

**Developer Tools:** VS Code, CLion, Atom, XCode, Docker, Selenium, Cucumber, IBM Cloud

**Technologies/Frameworks:** Git, Linux, React, Next.js, Node.js, Express.js, Tailwind CSS, PostgreSQL, MongoDB

## Leadership

### Tau Kappa Epsilon - Upsilon Pi Chapter

Spring 2021 – Spring 2022

*Executive Officer - Historian*

*University of California, Santa Cruz*

- Organized and executed 4 large-scale events with 300+ attendees within 1 school year, including managing entertainment, security, budgeting, and task delegation.
- Managed the UCSC TKE Instagram page, increasing the follower count by 20% within a month through engaging content and strategic posting.
- Documented and archived digital records of events, maintaining an organized Google Drive repository for easy access and future reference.