

# Ethan Chennault

San Leandro, CA • (510) 457-5290 • ethan.chennault.net • ethanolchennault@gmail.com

## Summary Statement

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Computer Science and Business Information Management double major at UC Irvine with hands-on experience in full-stack development, testing, and data management.

## Technical Skills

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### Programming Languages

Javascript, Typescript, Python, C/C++, Java

### Database Technologies

SQL, Postgres, Firebase, MongoDB (NoSQL), AWS

### Web Technologies

HTML, CSS, React, Tailwind, Express, Next.js, Remix

### Workflow Tools (and other)

Jira, Git, GitHub, GitLab, Linux, Docker, Figma

## Experience

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### Lawrence Berkeley National Lab

June 2025 - Present

Student Assistant

Berkeley, CA

- Developed the user interface for TerraNova, a web application to build and edit interactive network maps, capable of handling several different data sources and custom node icons.
- Implemented and documented a full design system, with several dozen WCAG compliant components, utilizing Figma, Storybook, React, Typescript, and SCSS.
- Developed visual regression tests using Playwright and Jest, achieving 100% code coverage.

### University of California, Irvine

Nov 2024 - Present

Research Assistant

Irvine, CA

- Implemented multithreaded random sampling for BLANT, a graph sampling and alignment tool written in C, allowing for a 16 times speedup in runtime on Linux systems.
- Decreased build times by roughly 25% by eliminating redundancy and optimizing the Makefile.
- Developed in-house hosted web frontends for research applications using React and Express.

### Alameda County Information and Technologies Department

June 2022 - Aug 2022

Summer Technology Intern

Oakland, CA

- Configured and repaired switches, firewalls, and routers, allowing for increased network connections.

### Hewlett Packard Enterprise

May 2021 - Aug 2021

Engineering Intern

Remote

- Developed a Python script to remotely connect and query live HPE customer services for data traffic analysis.
- Created suites of unit and integration tests to ensure code quality across Windows and Linux.

## Education

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### University of California, Irvine

September 2023 - Present

B.S. in Computer Science, B.S. in Business Information Management (Expected 2027)

GPA: 3.83, Dean's Honor List

Relevant Coursework: Data Structures and Algorithms, Information Retrieval, Introduction to Data Management

## Projects

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- **BLANT:** Graph analysis tool written in C, capable of analyzing networks with billions of nodes and edges, leveraging multithreaded random sampling to index and determine graphlet frequency and distribution.
- **Search Engine:** Web search engine written in Python capable of handling over 50,000 documents, utilizing ranked retrieval based on tf-idf, and having a query response time of 100 milliseconds.
- **Sense:** Full-stack web application for managing a personal budget, capable of handling over 1,000 users and budgets, stored on a Postgres database with a React and Typescript frontend.
- **Redrawer:** Python script for re-creating images on Microsoft Paint by analyzing pixel color information and using the Win32 API to efficiently redraw images with widths of up to 4,000 pixels.