

Ethan Chennault

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Summary Statement

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

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

Lawrence Berkeley National Lab

Student Assistant

June 2025 - Present

Berkeley, CA

- Implemented and documented a full design system consisting of several dozen user interface components from Figma design specifications using React, Typescript, Vite, and SCSS.
- Developed visual regression tests using Jest and Storybook, achieving 100% code coverage and UI consistency.

University of California, Irvine

Research Assistant

Nov 2024 - Present

Irvine, CA

- Implemented parallelized random sampling on Linux systems, allowing an up to 16 times decrease in runtime.
- Decreased build times by 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

Oakland, CA

Summer Technology Intern

- Configured and repaired private networks systems components, such as switches, firewalls, and routers, allowing for faster communications and network connection in three new buildings.
- Uninstalled and disk wiped nonessential servers in the Oakland data center, optimizing the network.

Hewlett Packard Enterprise

Engineering Intern

May 2021 - Aug 2021

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

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

San Leandro High School

August 2019 - June 2023

Projects

- **BLANT:** Graph analysis tool written in C for analyzing networks with up to billions of nodes and edges, leveraging parallelized random sampling to index and determine frequency of graphlets.
- **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/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.