

Ethan Chennault

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Summary

Full-stack developer and Computer Science student at the University of California, Irvine, passionate about building beautiful user interfaces, scalable backends, and data-driven applications.

Technical Skills

Programming Languages

JavaScript (TypeScript), Python, Go, C/C++, Java

Database Technologies

SQL, Postgres, Firebase, MongoDB, AWS

Web Technologies

React, Vue, Express, Next.js, Remix, Tailwind

Tools

Git, Linux, Docker, Figma, Jira

Experience

Lawrence Berkeley National Lab

Student Assistant

June 2025 - Present

Berkeley, CA

- Developed the UI for TerraNova, an open-source network visualization tool, using React, Tailwind, and FastAPI.
- Designed, built, and documented a full design system, with 30+ WCAG-compliant components, using Figma, web components, Storybook, TypeScript, and SCSS.
- Implemented visual regression and interaction tests using Playwright and Jest, preventing frontend issues.

University of California, Irvine

Research Assistant

Nov 2024 - Present

Irvine, CA

- Developed self-hosted web frontend allowing hundreds of scientists to spawn long-running research jobs on university servers using TypeScript and Express.js.
- Optimized multithreaded random sampling for BLANT, a C graph sampling and alignment tool, allowing for a 16x speedup in runtime on Linux systems.

Hewlett Packard Enterprise

Engineering Intern

May 2021 - Aug 2021

Remote

- Developed a Python data-retrieval script to remotely query live production servers for traffic metadata.
- Created suites of tests with Pytest to ensure code quality across Windows and Linux systems.

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

Projects

Sense (Personal Finance Application)

Developed a personal budgeting app to track and limit spending across several accounts.

- Utilized Next.js and React with server-side rendering and optimistic UI for instantaneous loading.
- Implemented a REST API to access data in a Postgres database, able to handle over 1,000 users and budgets.
- Hosted the frontend on Vercel, providing users fast and reliable loading.

Facets (Online Stickyboard)

Built an online stickyboard forum to post ideas and foster connections.

- Implemented a real-time stickyboard and chat with Supabase, supporting up to 200 concurrent users.
- Incorporated AWS Lambda with cron-based scheduling to create automated daily posts.
- Leveraged Prisma ORM to create data models schema and store them in a Postgres database.

Search Engine (Python Web-Crawler and Document Indexer)

Created a Python application to download and index over 50,000 documents.

- Utilized multithreading to manage a ranked document retrieval with below 100 millisecond query time.