Ethan Chennault

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Summary

Software engineer and computer science student at 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

Database Technologies
SQL, Postgres, Supabase, MongoDB, Elasticsearch

Web Technologies
React, Vue, Next.js, Express.js, FastAPI, Remix

Tooling
Git, Docker, AWS, Linux, Figma

Experience

Lawrence Berkeley National Lab   June 2025 - Present
Student Assistant   Berkeley, CA
- Engineered the user interface for a network visualization tool, utilizing React, React Router, and Tailwind, transforming layers of data into interactive maps; wrote E2E tests to cover 100% of user journeys.
- Migrated database from Elasticsearch to SQLite, reducing service overhead and simplifying deployment pipeline; optimized FastAPI backend to reduce response size by up to 50%.
- Designed and coded a design system with 30+ components, using TypeScript, SCSS, Storybook, Figma; implemented visual regression and interaction tests using Playwright and Jest, maintaining 90%+ coverage.

UCI ZotBins Project   Sep 2025 - Present
Software Engineer   Irvine, CA
- Led the design and development of a React dashboard visualizing trash data trends with D3.js; leveraged Next.js data fetching to provide ~200ms load times when viewing time-series graphs.
- Implemented RESTful API endpoints with FastAPI and Pydantic to post sensor recordings and fetch bin data.

University of California, Irvine   Nov 2024 - Dec 2025
Research Assistant   Irvine, CA
- Developed self-hosted web frontend allowing other researchers to to spawn hundreds of long-running parallel HPC jobs on university servers using TypeScript and Express.js.

Hewlett Packard Enterprise   May 2021 - Aug 2021
Engineering Intern   Remote
- Developed a Python data-retrieval script to remotely query live production servers for traffic metadata.
- Wrote unit tests with Pytest to ensure code functionality across Windows and Linux systems.

Education

University of California, Irvine   Sep 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 server-side rendering and optimistic UI for instantaneous loading and seamless UX.
- Implemented a Node.js REST API with a Supabase database to manage over 1,000 users and budgets.

Facets (Online Stickyboard)
Built an online stickyboard forum to post ideas and foster connections.
- Architected daily engagement posts by impementing cron-triggered AWS Lambda functions.
- Leveraged Prisma ORM to create data models schema and store them in a Postgres database.