

Clara Yin

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EDUCATION

University of California, Davis
B.S. in Computer Science

Davis, CA
Exp. Jun 2028

- Awards: **Best Use of MongoDB Atlas** (HackDavis 2025), First Place (Davis Product Space Pitch Competition)
- **Notion Campus Leader**: Driving Notion adoption at UC Davis through hosting workshops and community building.
- AggieWorks (Director of Engineering): Led 25+ engineers across 5 teams in developing student-focused products.
- CodeLab (Operations): Organizing events and professional development at Davis's largest software and design agency.

EXPERIENCE

Cisco
Software Engineering Intern

Jun. 2026 – present, Jun. 2025 – Sep. 2025
San Jose, CA

- Designed configurable **eval harness** with **LLM-as-judge** to select production model, improving accuracy by **50%**.
- Architected **LangGraph** agentic chatbot with Azure OpenAI and **MCP**, routing across NL-to-SQL and RAG pipelines.
- Created Random Forest rebate prediction model, reducing runtime to 5 seconds for **98% faster inference**.
- Built FastAPI service connecting **10 million+ Snowflake records** to ML, delivering end-to-end results in **<10 seconds**.

UC Davis Facilities Management
Software Engineering Intern

Feb. 2025 – present
Davis, CA

- Led rebuild of Campus Energy Dashboard, architecting full-stack system to display 13 years of energy to **42k** users.
- Built **data streaming pipeline** fetching from 5 sources and allowing downloads of **10k+ rows of data** in **<2 seconds**.
- Optimized GraphQL resolvers over aggregated meter data, making retrieval **25% faster** over **1k+ concurrent requests**.
- Architected a **two-tier caching layer** with flat-cache and TanStack Query, leading to a **92% faster** load time.

Lawrence Berkeley National Lab
Software Engineering Intern

Jun. 2023 – Aug. 2023
Berkeley, CA

- Developed DFAT, an energy demand analysis tool with **20% increased prediction accuracy** compared to prior tools.
- Used **React** and Chart.js to build interface collecting 20+ user inputs and visualizing potential data trends.
- Used **Express** and Node to query load shed equations from **MongoDB** climate database and compute estimations.

PROJECTS

Clubly - UC Davis Club Finder | *Cloudflare, Docker, GHCR, Svelte, TanStack, Hono, PostgreSQL*

clubly.org

- Built Clubly, a club search and management website with **15k+ unique users** and **95k+ pageviews**, using Svelte.
- Used **Docker** to containerize API/database and Github Container Registry to store images for **reproducible deploys**.
- Configured automatic deployments on **Cloudflare Pages** supported by a **Github Actions CI/CD pipeline**.

E-Store Manager | *Stripe API, React, Next.js, Prisma, GraphQL, PostgreSQL*

[E-Store Manager](#)

- Built E-Store manager platform using **Stripe API** payment processing, allowing businesses to deploy online stores.
- Used **Next.js**, Prisma, and **GraphQL** to write a **payment and inventory management API** supporting order tracking.
- Built a frontend shopping interface with **Stripe Checkout**, including product filtering, sorting, and discount mechanisms.

Discreat - Emergency Report Connector | *Llama, Cerebras API, MongoDB Atlas, React*

discreat.vercel.app

- Automated logging for domestic violence response using **Cerebras API** and **Llama sentiment analysis** on live chats.
- Enabled path tracing with **Google Maps API**, creating timestamped check-ins and route reconstructions.
- Used **MongoDB Atlas geospatial queries** to cluster reports, assess response time, and identify high-latency locations.

TECHNICAL SKILLS

Languages and Frameworks: Typescript, Javascript, Python, Java, C++, SQL (Postgres), React.js, Next.js, Svelte, GraphQL
Machine Learning: Model Context Protocol, AI Agents, LangGraph, Evals, Azure OpenAI Service, FastAPI, Scikit-learn, Pandas
Developer Tools: PostgreSQL, Node.js, MongoDB, Docker, Git, Github, Cloudflare, Stripe API, Notion API, Google Maps API