

# Bian Lee

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## University of California, Davis

Davis, CA

*B.S. Computer Science, Minor in Economics*

*Jun 2025*

- Object-Oriented Programming in C++, Programming & Problem Solving in C, Data Structures & Algorithms, Machine-Dependent Programming in x86 Assembly, Computer Architecture, Discrete Mathematics, Human-Computer Interaction, Computer Network Fundamentals, System Administration (Linux), Databases, Probability Theory

## EXPERIENCE

### Fidelity Investments

Jun 2024 – August 2024

*Incoming Software Engineer Intern*

*Merrimack, NH*

### California Air Resources Board

Jun 2023 – Present

*Data Analyst Intern*

*Sacramento, CA*

- Completed cost-effectiveness analysis & calculations on Excel spreadsheets to calculate emissions values and grants
- Thoroughly performed QA/QC procedures on 6 datasets (10K+ records) and helped draft annual reports on aggregate air pollution emissions during the annual CAP reporting cycle in Nov/Dec (part of Carl Moyer Program)
- Reduced manual data entry by ~80% by streamlining an automated importing system from database to front-end interface
- Queried/parsed CSV data from backend using **SQL** and wrote **Python** scripts to develop data pipelines
- Conducted software testing on 10+ features of CARL database management system and communicated critical findings

### Optimizing.com

Nov 2023 – Feb 2024

*Software Engineer Intern*

*Austin, TX*

- Led backend development of CRM dashboard for 10+ SMB business clients with Stripe integrations for financing
- Reduced code redundancy by ~20% through refactoring reusable components and employing nested routes in **Remix**
- Designed 6 relational (one-to-many) schemas in **Prisma** for customers/checkouts and implemented API endpoints with Action and LoaderFunctions to listen to HTTP requests, implementing CRUD operations

### Vestr.io

Nov 2022 – Jun 2023

*Analyst Intern*

*Clemson, SC*

- Conducted sell-side stock equity research through Discounted Cash Flow model and market sentiment/industry analysis
- Edited and published weekly company newsletter and delivered +73% subscriber count growth

## PROJECTS

### ClubHire ([clubhire.us](https://clubhire.us)) | *Next.js, Supabase*

Feb 2024

- Currently developing a SaaS platform that allows companies to outsource work to college clubs and manage contracts

### DSM-5 Diagnostic Chatbot with Semantic Search | *GPT-3.5 Turbo, Pinecone, Langchain, MongoDB*

Jun 2023

- Used LLM to process DSM-5 document and store vector embeddings to allow for semantic search of psychiatric conditions
- Fine-tuned OpenAI's GPT-3.5 turbo model and built a conversational diagnostic chatbot with Next.js
- Executed Python scripts in BeautifulSoup to scrape web data of nearby physicians & clinics, storing them as key-value documents in MongoDB. Built and Served NodeJS API and used Axios library to fetch & render data on screen

### Decentralized Exchange & ERC-20 Token | *Solidity, Web3.js, React, Truffle Suite*

Dec 2022

- Wrote Ethereum smart contracts in Solidity to create a custom ERC-20 token & tokenomics and a decentralized exchange
- Implemented Constant Product Market formula used in Automated Market Making (AMM) systems, and deployed on Ethereum blockchain (mainnet) to allow users to trade custom token for ETH using Metamask wallet

### EdTech Web App ([opensourcecollage.com](https://opensourcecollage.com)) | *MongoDB, Express.js, React.js, Node.js (MERN), Firebase*

Jan 2022

- Independently built a full-stack EdTech app that allows browsing & sharing extracurricular/volunteer opportunities
- Onboarded 18 non-profits and received 22k+ total visitors on the platform, after launching on Product Hunt
- Received monetary prize & mentorship from business consultant, Silicon Valley SVSCORE (Mentor: Chuck Scifers)

## TECHNICAL SKILLS

**Languages:** Python, Java, Kotlin, C, C++, JavaScript, TypeScript, Golang, Solidity, SQL, HTML, CSS

**Frameworks/Tools:** React.js, Next.js, Remix, Node.js, Express.js, Web3.js, D3.js, Git, GitHub, MongoDB, Tailwind, Drupal, Jupyter Notebook, PostgreSQL, Svelte, BeautifulSoup, Postman, Clerk, Supabase, Docker, Zustand, Linux, Excel

**Certifications:** CompTIA IT Fundamentals+, Jira Software Fundamentals

## AWARDS, HONORS & MISC.

UC Davis Dean's Honors List (College of Engineering)

UC Davis Little Bang! Pitch + Poster Competition Winner @ Graduate School of Management (Awarded \$1k)

Cyber Skyline Social Cyber Cup 3rd Place (Awarded \$2.5K)

CyberPatriot National Semifinalist

Independent Composer/Producer (30k+ streams, 12k+ listeners across 40+ tracks on Spotify)