

# Bian Lee

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## University of California, Davis

Davis, CA

### B.S. Computer Science and Engineering, Minor in Economics

Jun 2025

- Object-Oriented Programming, Data Structures & Algorithms, x86 Assembly, Discrete Mathematics, Computer Network Fundamentals, System Administration (Linux), Databases, Calculus III, Linear Algebra, Probability Theory

## EXPERIENCE

### Incoming Software Engineer Intern @ Fidelity

Jun 2024 – August 2024

*Fidelity Investments*

*Merrimack, NH*

### Software Engineer Intern

Nov 2023 – Present

*Optimizing.com*

*Austin, TX*

- Led backend development of CRM dashboard (Vixo.ai) for 10+ 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, allowing for CRUD operations

### Data Analyst Intern

Jun 2023 – Present

*California Air Resources Board*

*Sacramento, CA*

- Performed QC on 6 datasets of 10K+ records to complete annual report calculations for aggregate air pollution emissions
- Reduced manual data entry by ~80% by streamlining an automated importing system from DB to front-end interface
- Queried and parsed CSV data using **SQL** and **Python** scripts to develop visual/analytical models with **Excel**
- Led QA testing on 4 features of database management interface and updated Azure tickets to report results/findings
- Updated 5 organization webpages with **Drupal CMS** and drafted 11 internal documentations

### Analyst Intern

Nov 2022 – Jun 2023

*Vestr, Series A startup*

*Clemson, SC*

- Led 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

### Software Engineer

Oct 2022 – Jun 2023

*AggieWorks, UC Davis Club*

*Davis, CA*

- Established backend infrastructure of Clubly.org by designing schemas, writing queries in GORM, and building API routes
- Wrote internal scripts in **Golang**, to track and query number of API calls made at every REST API endpoint

## PROJECTS

### DSM-5 Diagnostic Chatbot | GPT-3.5 Turbo, Pinecone, Langchain, MongoDB

Jun 2023

- Leveraged LLM to parse through DSM-5 with semantic search, storing data as vector embeddings in Pinecone database.
- Fine-tuned OpenAI's GPT-3.5 turbo and used React in Next.js to create an interactive diagnostic chatbot
- 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 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) | 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, 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)