Bian Lee

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EDUCATION

University of California, Davis — Davis, CA
*Bachelor of Science in **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

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 – June 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 Beautiful Soup 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 Socal Cyber Cup 3rd Place (Awarded $2.5K)
CyberPatriot National Semifinalist
Independent Composer/Producer (30k+ streams, 12k+ listeners across 40+ tracks on Spotify)