

Bian Lee

EDUCATION 949-880-4327 | bianlee2004@gmail.com | bianlee.me | linkedin.com/in/bianlee | github.com/bianlee

University of California, Davis

Davis, CA

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

Jun 2025

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

EXPERIENCE

California Air Resources Board

Jun 2023 – Present

Data Analyst Intern

Sacramento, CA

- Thoroughly performed QA/QC procedures on 6 datasets (10K+ records) and compiled reports on aggregate air pollution emissions during the annual CAP reporting cycle, under Carl Moyer Memorial Air Quality Standards Attainment 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
- Completed cost-effectiveness analysis on Excel to calculate emissions and grants values for State-funded projects

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 payments
- 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/LoaderFunctions to listen to HTTP requests and allow CRUD operations

Vestr

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) | *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 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 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 | *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)