

# BIAN LEE

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## EDUCATION

**University of California, Davis** B.S. Computer Science and Engineering, Economics minor

**Grad: Jun 2025**

## EXPERIENCE

**Data Analyst Intern** at California Air Resources Board

**Jun 2023 - Present**

- Performed data quality control, and assisted database migration to .NET system.
- Generated analytical reports on CSV datasets using Excel, SQL query commands, and Python scripting. Developed a calculator tool to compute emission reduction data for equipments, given load factor values and formulas.
- Assisted organization webpage creation with Drupal CMS. Drafted 11 internal documentations on Community Air Protection (CAP) reporting processes, and on executive orders in compliance with State regulations.

**Analyst Intern** at Vestr.io

**Nov 2022 - Jun 2023**

- Led equity research of US Stocks & and analysis of DeFi & Web3 markets.
- Published weekly newsletters & daily market summaries on latest trends and news, specifically in the cryptocurrency sector. Worked closely with the founder, as the 4th employee at the Series A startup.

**Software Engineer** at AggieWorks

**Oct 2022 - Jun 2023**

- Collaboratively built clubby.org, a CRUD web app. Implemented backend API using GORM (hosted on Vultr VPS), then front-end modal components (cards, search bar, navs.) with conditional rendering using Svelte. [GitHub]
- Developed an internal tool with Go scripts, to query number of API calls made at each endpoint.

**Technical Mentor** at SoCal Community College Consortium on Cybersecurity

**Oct 2021 - Mar 2022**

- Worked with professors from Irvine Valley College's Computer Information Management department to create preparatory CyberPatriot (national security competition) materials, and wrote CTF problems for org-wide contests.
- Developed practice VM images for Ubuntu OS using Ansible and Shell Script.

**Webmaster** at InterSTEM Nonprofit 501(c)(3)

**May 2020 - May 2022**

- Built organization website (interstem.us) with Jekyll, Markdown, SCSS. Published 148 articles, w/ 200k+ views.
- Remotely taught 3 students a preparatory curriculum to help attain CompTIA IT Fundamentals+ Certification.

## PROJECTS

**DSM-5 Diagnostic Chatbot (mentalheal.tech) | GPT-3.5 Turbo, Pinecone, Langchain, MongoDB**

**Jun 2023**

- Used LLM to parse through DSM-5 with semantic search, with data stored as vector embeddings. Used OpenAI's engines to create an interactive chatbot with diagnostic ability. Built front-end with Next.js. [GitHub].
- Wrote Python scripts using BeautifulSoup, to scrap web data on Yelp. Stored this data on MongoDB Atlas, and implemented API endpoint using NodeJS. Used Jupyter Notebook + Matplotlib for analysis & visualizations.

**Decentralized Exchange Model & ERC-20 Token | Solidity, Web3.js, React**

**Dec 2022**

- Wrote smart contracts in Solidity for custom ERC-20 token / tokenomics and decentralized exchange (DEX).
- Implemented Constant Product Market formula used in Automated Market Making (AMM) systems. Deployed on Ethereum blockchain mainnet and allowed users to trade token for ETH using Metamask wallet. [GitHub]

**EdTech App (opensourcecollage.com) | MongoDB, NodeJS, React, Firebase**

**Jan 2022**

- Single-handedly developed an EdTech CRUD application on MERN stack with Firebase authentication, hosted serverless. Launched on Product Hunt, and onboarded 18 non-profits. Received 22k+ total visitors. [GitHub]
- Won monetary prize & mentorship from business consultant, Silicon Valley SVSCORE (Mentor: Chuck Scifers).

**Independent music composition & production**

**Nov 2021 - Present**

- Produced & released 30+ tracks with 12k+ total listeners, 32k+ streams on Spotify. Ran independent marketing campaign on social media, and launched weekly newsletter. Received media coverage in a newspaper.

## AWARDS & CERTIFICATIONS

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

**UC Davis Little Bang! Pitch + Poster Competition Winner (Awarded \$1K)**

**Socal Cyber Cup 3rd Place (Awarded \$2.5K)**

**CompTIA IT Fundamentals+ Certification**

## SKILLS & COURSEWORK

**Technical Skills:** Java, C, C++, Python, ReactJS, NextJS, NodeJS, ExpressJS, Shell Script, Git, MongoDB, SQL, HTML, CSS, TailwindCSS, Drupal, Jupyter Notebook, Excel, Postman

**Relevant Coursework:** Object-Oriented Programming, Data Structures & Algorithms, x86 Assembly, Discrete Math, Computer Network Fundamentals, System Administration (Linux), Databases, Calculus I/II/III, Linear Algebra