

CJ Hines

Berkeley, CA | +1619-559-0122 | mcjch@berkeley.edu | www.linkedin.com/in/cj-hines

Education

University of California, Berkeley

Summer 2023

B.A. Computer Science, B.A. Economics

GPA: 3.7/4.0

- Semester at King's College London (Fall '21). Semester at University of Cambridge, Pembroke College (Summer '23).
- Relevant Coursework:** Data Structures and Algorithms, Discrete Mathematics, Cryptography, Computer Graphics, Intro to Artificial Intelligence, User Interface Design and Development, Antitrust Law and Economics, Econometrics, Financial Economics, Economics Research, Microeconomics, Macroeconomics, Coding in R, Organizational Behavior, Entrepreneurship, Creativity and Leadership

Experience

Energport | Software Engineer

October 2022 – Present

- Optimizing the backend system by improving database communication, rewriting the system from PHP to Python, and writing test cases and documentation of the software architecture to increase both system and team efficiency.
- Overseeing all client hardware through Modbus and communicating with clients and sales regarding software maintenance.
- Built a remote monitoring and management dashboard to track 100+ clients' site status and streamline client and internal alerts.
- Configured a Virtual Machine with OracleVM as a functional testing environment transferring most local data using PostgreSQL.
- Created an application using JS, CSS, and HTML for price estimation based on kilowatts and other factors for the sales team.

NEXTracker Inc. | Software Developer Intern

June 2021 - August 2021 | January 2022 – May 2022

- Built a functional testing environment in Go to simulate sites receiving millions of API calls per day for developer test and deployment.
- Load tested traffic on 1000+ simulated devices in my testing environment to better estimate required installation quantity on sites resulting in quarterly savings through reduced operational costs and devices installed.
- Created an API to export live data to SQLite file using Redis and Postgres providing backward compatibility for mobile software update.
- Refactored the entire backend logging system and wrote documentation to implement a private logging package.

Tracker49 | Data Science Research Assistant

February 2021 - June 2021

- Conducted exploratory data analysis on 100,000+ data entries to provide historic insights on COVID disruptions to global shipping.
- Designed a predictive machine learning model that improved container estimated time of arrival for clients by 10-15% on average.
- Collaborated closely with the product team to document analysis and report findings for the client, customers, and community.

Leadership and Activities

Society of Women Engineers | Intersocietal Chair & Public Relations Chair

January 2022 – December 2022

- Corresponded with the UC Berkeley engineering community on behalf of SWE and organized events with 100+ in attendance.
- Created all designs, event posts, videos, and newsletters for 1000+ members of the UC Berkeley SWE section and alumni.
- Taught the first principles of design workshop with a focus on Adobe Illustrator, user experience, web accessibility, and typography.

Team Tech | Engineering Team Member

September 2020 – June 2021

- Researched material properties and conducted FEA analysis to develop a variety of solutions for warping and consumer dissatisfaction.
- Built prototypes using SolidWorks and documented process and design while regularly communicating with clients to improve design.
- Presented our research, findings, and hardware solution to the client and national members of Society of Women Engineers.

The Berkeley Forum | Vice President of Technology

June 2020 – December 2020

- Oversaw the multimedia, software, and data analysis subcommittees' projects and The Berkeley Forum's technical systems at events.
- Launched and head of the organization's podcast with a role in writing, speaker relations, and post-production.
- Overhauled The Berkeley Forum's website and YouTube channel resulting in 50K+ increase in views and online engagement.
- Previously worked on the finance efficiency data analysis, automated event scheduling software, and recruitment and retention data analysis projects as a member of leadership and as a general member. (August 2019 - June 2021)

Additional Information

Skills:

- Data Science and Software Engineering:** Python, Java, Go, C++, C, Git, Docker, Jenkins, SQL, R, Tableau
- Design:** Figma, HTML, JavaScript, CSS, Angular, Adobe Suite (AI, PS, XD, AE)
- Other:** Client-Facing Communication, Financial Modeling, Competitor Analysis, Excel, PowerPoint, SolidWorks, ProTools, FL Studio

Languages: English (*fluent*), Tagalog (*native*), Ilocano (*fluent*), Spanish (*conversational*), Mandarin (*limited working proficiency*)

Interests: Development Engineering, Renewable Energy and Sustainability, Ice Hockey, Medieval History, Music Production