KLAIRE SOBREPENA - SOFTWARE ENGINEER

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EDUCATION

University of California, Berkeley (Expected Graduation: 2025**)** - Data Science & Psychology
Relevant Completed Courses: Structure and Interpretation of Computer Programs, Data Structures and Algorithms, Introduction to Full Stack Development, Foundations of Data Science, Linear Algebra, Calculus

EXPERIENCE

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Software Developer Intern   Remote: Jun 2023 - Sep 2023

- Led front-end and back-end development initiatives in a high-pressure startup ecosystem as the sole tech intern, contributing to a 35% increase in project delivery efficiency across 5 major tasks and enabling the early launch of 3 major site updates..
- Harnessed Vue.js to craft user interfaces. Managed Firestore databases to guarantee efficient real-time data operations, overseeing over 100 real-time data transactions weekly.
- Leveraged Google Analytics for comprehensive data mining, extracting pivotal user behavior insights catalyzing strategic decision-making.

University of California, Berkeley

CS Academic Intern   Berkeley, CA: Jan 2023 -May 2023, Aug2023-Dec 2023

- Provided academic support for both CS61A and CS61B for over 600 students per semester in rigorous, intensive courses.
- Orchestrated and led more than 20 lab sessions and study groups each semester, simplifying complex theoretical concepts. Boosted student comprehension, reflecting notable enhancement in lab participation.
- Delivered personalized, one-on-one programming guidance, addressing 100+ unique student queries throughout each semester. Fostered a deeper, more practical understanding of computer science principles.

Society of Women Engineers

Web Developer and Designer   Berkeley, CA: Dec 2022- May 2023

- Engineered an intuitive website employing skills in HTML, CSS, JavaScript, and React, leading to a 25% rise in weekly site visits. Implemented responsive design principles, ensuring the website delivered seamless functionality across a variety of devices and browsers.
- Executed rigorous testing and debugging protocols, achieving a 98% error-free user experience. Ensured the website not only met but surpassed the organization's quality standards.

Society of Women Engineers

Full Stack Development Mentor   Berkeley, CA: Sep 2022- May 2023

- Mentored over 30 students in key concepts of HTML, CSS, JavaScript, and various web development frameworks, fostering a strong foundation in modern web technologies.
- Implemented a dynamic learning plan, adapting teaching strategies to meet individual student needs. Successfully guided 100% of the students to complete their own web development projects, exceeding initial program targets by 25%

PROJECTS

Multiplayer WPM Test June 2022 ● Collaborated on the development of a Python-based multiplayer typing test that features real-time autocorrect and tracking of typing speed ● Implemented randomized prompts, instantaneous calculations of words per minute and accuracy, typo autocorrect, and a competitive multiplayer mode

Scheme Interpreter Jul 2022 ● Collaborated on the development of a Scheme interpreter using Python, employing lexical and syntactic analysis to tokenize Scheme code and convert it into Python code that could be evaluated ●Led the implementation of core functionality procedures, including symbol evaluation, built-in procedure calls, defines, lambda expressions, user-defined procedures, and special form evaluations, to create a fully functional interpreter

NGordnet Tool Mar 2023 ● Implemented software tool that processes text data to determine the frequency of words and their associations with other words using the WordNet lexical database ● Developed the tool using Java and integrated caching and parallel processing techniques to improve its speed and efficiency ● Gained valuable experience in software development, team collaboration, and experimental design

RELEVANT SKILLS

Technical Skills: Python, Java, HTML/CSS, JavaScript, React, Node.js, R, Bootstrap, Data Analysis, Data Visualization, Object-oriented programming, and more