Klaire Sobrepena

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EDUCATION

University of California, Berkeley   **Berkeley, CA**
Bachelor of Arts in Data Science & Psychology   *Graduation Date: May 2025*

WORK EXPERIENCE

Triple Ring Technologies   **Newark, CA**
Software Engineer Intern   *Jun 2024 - Aug 2024*
- Developed the company's web interface using Flask, Jinja, and Three.JS, creating interactive 3D CAD visualizations to simulate radiation sterilization.
- Integrated advanced API calls to AWS cloud infrastructure to support radiation dose mapping workflows & leverage modern web technologies to build seamless interfaces for virtual dose mapping.
- Consistently delivered ahead of schedule, demonstrating efficiency and adaptability in a fast-paced R&D environment.

Hoamsy   **Nashville, TN**
Software Developer Intern   *Jun 2023 - Sep 2024*
- 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   **Berkeley, CA**
CS Academic Intern   *Jan 2023 - Dec 2023*
- Provided academic support for both CS61A and CS61B for over 600 students per semester in rigorous 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

PROJECT EXPERIENCE

Multiplayer WPM Test
● 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
● 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
●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

OTHER AFFILIATIONS

Girls Who Code
Technical Curriculum Lead   *Sep 2023 - Present*
- Creating and updating technical training curricula for technical interviews, ensuring the content meets learning objectives & better prepares students for real-world tech interviews
- Strategize and execute a series of dynamic technical workshops aimed at fostering practical skills and direct
- engagement, thereby enhancing the learners' interview readiness

Society of Women Engineers
Web Developer & Full Stack Development Mentor   *Sep 2022 - May 2024*
- 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.
- Mentored over 30 students in key concepts of HTML, CSS, JavaScript, and React, fostering a strong foundation in modern web technologies. Implemented a dynamic learning plan, adapting teaching strategies to meet individual student needs. Guided 100% of the students to complete their own web development projects, exceeding initial program targets by 25%

SKILLS

Python, Java, HTML/CSS, JavaScript, React, Node.js, R, Bootstrap, Data Analysis, Data Visualization, Pandas, Numpy, Flask, Jinja, Vue.js, AWS, Figma