RACHEL LEE

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Education

UNIVERSITY OF CALIFORNIA, BERKELEY   **Berkeley, CA | 2019-2023**

- **B.A in Computer Science –** GPA: 3.75
  - Recipient of Regents' and Chancellor's Scholarship (awarded to the top 1% of incoming freshmen)
  - **Relevant Coursework:** Data Structures, Discrete Mathematics and Probability, Designing Information Systems, Structure and Interpretation of Computer Programs

Professional Experience

WEB SOFTWARE DEVELOPER – BERKELEY LAW   **Berkeley, CA | February 2020 – Present**

- Design and implement front-end and back-end development of web applications utilizing primarily PHP, MySQL, HTML, and JavaScript working with web development team.
- Assist in drafting design documents and documentation for applications while using project management tools to track progress.

TUTOR – KUMON MATH AND READING   **Brentwood, CA | November 2018 – August 2019**

- Instructed roughly 50 children daily and specialized in assisting students with learning challenges such as ADHD and autism, clarifying mathematical and reading concepts and applying effective learning strategies to improve retention.

Projects

ENROLLMENT GRAPH VISUALIZATION   **JavaScript, PHP | April 2020 – Present**

- Redesigned entire visual representation of enrollment graph for Berkeley Law courses using Chart.js to create an aesthetic and user interactive interface for multiline charts pulling data from external APIs.

GITLET: RECREATION OF GIT   **Java, Git | April – May 2020**

- Created from scratch a working implementation of the git version-control system starting from the detailed design documentation to structure each component and replicate the core functionalities.
- Learned how to apply persistence to preserve each state of the program and utilize graph traversals to handle merge conflicts and criss-cross merges.

AUTONOMOUS OBJECT DETECTION   **Java, OpenCV | September 2018 – March 2019**

- Optimized color and shape detection in phone camera by incorporating open source computer vision software to enhance real-time image processing and communication with external sensors.

Extracurriculars

FUNDRAISING CHAIR – SIGMA PHI OMEGA   **Berkeley, CA | January 2020 – Present**

- Ideated and managed all fundraising events while creating teams to efficiently delegate tasks and train new members.
- Raised about $1,000 and utilized cost-effective methods and materials to increase profit margins and maintain a consistent minimum 200-300% return.
- Worked in highly publicized school events and populated areas, interacting with thousands of students to promote engagement and activity during recruitment, fundraising, and awareness events.

GROUP LEAD VOLUNTEER – BERKELEY GIRLS IN ENGINEERING   **Berkeley, CA | July 2018**

- Encouraged roughly 60 young middle school girls to explore different fields of engineering by building 3D printed prosthetic hands, explaining practicalities of self-driving cars and demonstrating creative projects of biomimicry.
- Resolved conflicts among team members and worked with female graduate students and professors to share insight of experiences in the STEM career field and progress of current research projects and labs concentrating on AI.

Skills

•**Python**   •**Java**   •**JavaScript**   •**HTML/CSS**   •**PHP**   •**SQL/MySQL**   •**Git**   •**OpenCV**