

Rachel Lee

☎ +1(925)9891451 | ✉ bokyounglee@berkeley.edu | 🏠 rachlee.com | 📺 leerach | 🌐 leerach

Education

University of California, Berkeley

GPA: 3.55/4.0

B.A COMPUTER SCIENCE

Aug. 2019- May 2023

- **Awards:** Recipient of Regents' and Chancellor's Scholarship (awarded to the top 1% of incoming freshmen)
- **Relevant Coursework:** Data Structures, Efficient Algorithms, Computer Architecture, Discrete Mathematics and Probability

Work Experience

Relentlo

Berkeley, CA

LEAD SOFTWARE ENGINEER

Nov. 2020 - Present

- Execute key functionalities of front-end web application in ReactJS as core team member in startup aiming to innovate game advertising.
- Manage full-stack development of organization's online presence and back-end databases using Firebase to deploy essential features for client brands and games.

UC Berkeley School of Law

Berkeley, CA

WEB APPLICATION DEVELOPER

Feb. 2020 - Present

- Implement front-end and back-end development of web applications used by 1000+ users with web dev team.
- Redesigned entire enrollment graph UI in JavaScript and HTML5 and assisted in building back-end server-side in PHP.
- Extracted over 30,000 data entries from JSON files and reduced runtime by 75%.

CoolClimate Network

Berkeley, CA

RESEARCH INTERN

Sep. - Dec. 2020

- Developed carbon footprint calculators for 200+ international countries and every U.S/Canadian zip code using ReactJS.
- Empowered students to reduce greenhouse gas emissions with Cool Campus calculators used by 200,000+ participants.

Women in Tech Initiative at UC

Berkeley, CA

RESEARCH ASSOCIATE

Sep. - Dec. 2020

- Built and maintained databases to improve quality of corporate inclusion data and gender diversity metrics.

Projects

Memories - Deep Learning Web Application

Python, PyTorch, React

🔗 CALLAUNCHPAD/MEMORIES

Sep. - Dec. 2020

- Created a web application in React that utilizes convolutional neural networks and transfer learning built with PyTorch to generate ambient background audio from the scenery and emotions of user uploaded images.
- Developed baseline model by training image classifiers and deconstructing images and audio files.

SF Evictions - 3D Data Visualization

Python, JavaScript, NodeJS

🔗 LEERACH/SF-EVICTIONS

May - Jun. 2020

- Constructed interactive 3D geospatial visualizations of over 40,000 eviction notices to analyze all communities within San Francisco impacted from evictions by integrating Deck.gl, Mapbox and NodeJS with public data.
- Predicted rate of growth of evictions over time from 1997 to present with linear regression models and KNN.

Extracurriculars

Launchpad

Berkeley, CA

MACHINE LEARNING ENGINEER

Sep. 2020 - Present

- Deploy intelligent software using machine learning with 40+ members to deliver effective products to industry clients.

UC Berkeley Girls in Engineering

Berkeley, CA

GROUP LEAD VOLUNTEER

Jul. 2018

- Encouraged 120+ young middle school girls to explore different fields of engineering and STEM industries.
- Assisted in facilitating workshops with dozens of professors and graduate students.

Skills

Languages	Python, Java, JavaScript, HTML5/CSS, C, PHP, SQL/MySQL, LaTeX, RISC-V (Assembly)
Technologies	ReactJS, PyTorch, NodeJS, Scikit-Learn, Firebase, NumPy, Mapbox, Deck.gl