RACHEL LEE

bokyounglee@berkeley.edu • +1(925)989-1451 • rachlee.com • linkedin.com/in/leerach/

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY **2019-2022**

B.A. Computer Science – GPA: 3.55/4.0

- **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, Cloud Computing and SaaS

PROFESSIONAL EXPERIENCE

LAUNCHPAD – MACHINE LEARNING ENGINEER **September 2020 – Present**

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

COOLCLIMATE NETWORK – RESEARCH INTERN **September 2020 – Present**

Supervisors: Dr. Christopher Jones and Nobel Laureate Dr. Daniel Kammen

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

WOMEN IN TECH INITIATIVE AT UC – RESEARCH ASSISTANT **September 2020 – Present**

- Build and maintain **SQL** databases to improve quality of corporate inclusion data and gender diversity metrics.

UC BERKELEY SCHOOL OF LAW – WEB APPLICATION DEVELOPER **February 2020 – Present**

- Implement front-end and back-end development of web applications used by 1000+ users with web dev team.
- Redesigned 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%.

PROJECTS

MEMORIES – DEEP LEARNING WEB APPLICATION **Python, PyTorch, React| September – Present**

https://github.com/callaunchpad/memories

- Create 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.
- Develop baseline model by training image classifiers and deconstructing images and audio files.

SF EVICTIONS – 3D DATA VISUALIZATION **Python, JavaScript | May – June 2020**

https://github.com/leerach/sf-evictions

- 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

NOVA – DIRECTOR OF TECHNOLOGY **July 2020 – Present**

- Create entire online presence of the organization designated to engage young girls in STEM and product design.

UC BERKELEY GIRLS IN ENGINEERING – GROUP LEAD VOLUNTEER **July 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
Technologies: ReactJS, PyTorch, NodeJS, Scikit-Learn, Firebase, NumPy, Mapbox, Deck.gl