

# Rachel Lee

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## Education

### University of California, Berkeley

GPA: 3.55/4.0

#### B.A COMPUTER SCIENCE

Aug. 2019- May 2022

- **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

## Work Experience

### 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.

### CoolClimate Network

Berkeley, CA

#### RESEARCH INTERN

Sep. 2020 - Present

- 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

Berkeley, CA

#### RESEARCH ASSOCIATE

Sep. 2020 - Present

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

### 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%.

## Projects

### Memories - Deep Learning Web Application

Python, PyTorch, React

#### 🔗 CALLAUNCHPAD/MEMORIES

Sep. 2020 - Present

- 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, 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

### Nova

Berkeley, CA

#### DIRECTOR OF TECHNOLOGY

Jul. 2020 - Present

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

### 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