

# Katie Kim

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## EDUCATION

### UC BERKELEY

B.A. COMPUTER SCIENCE  
B.A. MOLECULAR AND CELL  
BIOLOGY: BIOCHEMISTRY  
MINOR IN BIOENGINEERING  
Class of 2021 | Berkeley, CA  
GPA: 3.393

### WEBBER ACADEMY

Class of 2017 | Calgary, Canada

## COURSEWORK

### COMPLETED

**CS61A:** Structure and Interpretation of  
Computer Systems  
**CS61B:** Data Structures  
**CS70:** Discrete Mathematics and  
Probability Theory  
**EE16A:** Designing Information Devices  
and Systems I  
**MATH 10A/10B:** Methods of  
Mathematics: Calculus, Statistics, and  
Combinatorics  
**Math 53:** Multivariable Calculus  
**PHYSICS 8A/8B:** Introductory Physics

### IN PROGRESS

**BIOENG 131:** Introduction to  
Computational Molecular and Cell  
Biology  
**CS170:** Efficient Algorithms and  
Intractable Problems  
**CS188:** Introduction to Artificial  
Intelligence

## SKILLS

### LANGUAGE

Fluent:  
English • Korean  
Proficient:  
French

### PROGRAMMING

Proficient:  
Java • Python • Lisp (Scheme) • SQL  
LaTeX • Jupyter Notebook  
Familiar:  
HTML/CSS • C++ • C

## EXPERIENCE

### POLITICAL COMPUTER SCIENCE @ BERKELEY

INTERNAL VICE PRESIDENT, PROJECT ANALYST

September 2018 - Present | Berkeley, CA

- As IVP, managed finances and budget (including grant writing), facilitated weekly internal meetings for 35 members, and organized social events to overall foster a positive social environment for club members.
- As a project analyst, worked in semesterly projects that aimed to solve political issues present around the world (see Notable Projects).

### MOLECULAR & CELL BIOLOGY UNDERGRADUATE STUDENT ASSOCIATION

WEBMASTER, PUBLICITY COMMITTEE OFFICER

September 2018 - May 2019 | Berkeley, CA

- As Webmaster, updated the club website regularly of any new events or club-related information.
- Reconstructed the club website when it got hacked and taken down.
- As part of the Publicity Committee, organized outreach for various events the student association hosts, and organized internal events such as photoshoots.

### UC BERKELEY EECS DEPARTMENT

ACADEMIC INTERN

June 2018 - Present | Berkeley, CA

- Assisted students in coursework for CS61A: Structure and Interpretation of Computer Programs in Python, SQL, and Scheme in weekly labs as well as office hours since the Fall 2018 semester.
- Assisted students with coursework for CS10: Beauty and Joy in Computing in Snap! as well as Python in the lab setting during the Summer 2018 semester.
- Offered one-on-one tutoring for CS10: outside of designated class time for CS10: Beauty and Joy of Computing during the Summer 2018 semester.

## NOTABLE PROJECTS

### ROLL CALL

PCS @ Berkeley

- Created an open source Python package to visualize and analyze voting blocs in the US Congress by treating it as a network graph with nodes representing each member of Congress and edges representing connectivity.
- Identified and integrated optimal clustering algorithms to assign weights to edges in the Congressional network graph.
- Built a pipeline using various APIs for Congressional voting and sponsorship data, and represented the data using Python libraries such as Plotly and NetworkX.

### ENGINEERING ACTIVISM

PCS @ Berkeley

- Consulted for Gather Activism, a Chicago-based startup that connects activists to organizers of political events.
- Built an API hosted on AWS that predicts which recent pieces of legislature a user is likely to take interest in based on the user's past interests.
- Created a hybrid feature-based/collaborative recommender system for legislature using Python.