Katie Kim

katiekim@berkeley.edu | 510.570.5265 | LinkedIn://katiekim99

EDUCATION

UC BERKELEY
B.A. Computer Science
B.A. Molecular and Cell Biology: Biochemistry
Minor in Bioengineering
Class of 2021 | Berkeley, CA
GPA: 3.410

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 - Present | 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.