

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: 3.388

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

CS370: Introduction to Teaching Computer Science

UPCOMING

BioE 101: Instrumentation in Biology and Medicine

CS61C: Machine Structures

EE16B: Designing Information Devices and Systems II

SKILLS

PROGRAMMING

Java • Python • Lisp (Scheme) • SQL

HTML/CSS • C++ • C

Git • Jupyter Notebook

MODELLING

AutoCAD • Solidworks

LANGUAGE

English • Korean • French

EXPERIENCE

POLITICAL COMPUTER SCIENCE @ BERKELEY

PROJECT MANAGER, INTERNAL VICE PRESIDENT

September 2018 - Present | Berkeley, CA

- As a PM, responsible for managing a team of 6 members and overseeing weekly project meetings and development sessions.
- As IVP, managed finances and budget (including grant writing), facilitated weekly internal meetings for the whole club, and organized social events to overall foster a positive social environment for club members. .
- As a project analyst, worked in semester-long projects that aimed to solve political issues present around the world (see Notable Projects).

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 during the Summer 2018 semester.

MOLECULAR & CELL BIOLOGY UNDERGRAD 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, and reconstructed the club website when it got hacked and taken down.

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.