

EDUCATION	<b>UC Berkeley: B.S. Electrical Engineering and Computer Science</b> <b>GPA: 3.73</b> <b>Clubs:</b> Machine Learning @ Berkeley, Society of Women Engineers, Computer Science Mentors, Association of Women in EECS <b>Coursework:</b> Data Structures, Efficient Algorithms and Intractable Problems, Discrete Math and Probability, Structure and Interpretation of Computer Programs, Designing Information Devices and Systems I and II	Berkeley, CA <i>Expected May 2025</i>
SKILLS	Python (PyTorch, Keras, Pandas, SciKit-Learn), Java, SQL, Javascript, React.js, Flask, Linux, Git, Vim, Adobe Photoshop and Illustrator, Excel, Powerpoint	
EXPERIENCE	<b>Cubic Transportation Systems</b> <b>Software Engineering Intern</b>	Boston, MA <i>June 2023 - Aug 2023</i>
	<ul style="list-style-type: none"><li>Developed a full-stack web application for the Boston MBTA transportation system using Flask and React to monitor over 300 devices, as well as various sales and ridership statistics</li><li>Deployed a separate web app for tracking the location of over 100 active bus and subway trains across 6 different MBTA transit lines with real-time refresh every 2 minutes</li><li>Configured devices in the testing environment, identified key requirements for test cases, and executed stress testing for the coin and bills cashbox in the fare vending machines</li></ul>	
	<b>Redwood Center for Theoretical Neuroscience</b> <b>Undergraduate Machine Learning Researcher</b>	Berkeley, CA <i>Oct 2022 - Present</i>
	<ul style="list-style-type: none"><li>Optimize a convolutional sparse coding model on MNIST and incorporate computational features to improve memory usage and efficiency in image factorization tasks</li><li>Compare classification methods such as K-means, K-Nearest Neighbors (KNN), and high dimensional computing to evaluate effectiveness of convolutional sparse features</li></ul>	
	<b>Sirota Lab @ UCSF</b> <b>Undergraduate Machine Learning Researcher</b>	San Francisco, CA <i>July 2021 - Jan 2023</i>
	<ul style="list-style-type: none"><li>Predict preterm birth by applying decision trees and KNN using microbiome data stratified by body site on a phylotype level</li><li>Compare relevant bacteria identified by the model, such as Blautia and Ureaplasma, to current microbiome literature to determine validity of connection with pre-term birth</li></ul>	
LEADERSHIP	<b>Machine Learning @ Berkeley</b> <b>Workshops Lead and Education Officer</b>	Berkeley, CA <i>Sept 2022 - Present</i>
	<ul style="list-style-type: none"><li>Finetuned stable diffusion to generate New Yorker cartoons using Dreambooth and scraping custom dataset of New Yorker cartoons</li><li>Spearheaded inaugural all-day high school bootcamp to introduce 45 high school students to machine learning through various workshops and a project classifying Google's Quick, Draw! dataset</li></ul>	
	<b>Computer Science Mentors</b> <b>CS61A Junior Mentor and Academic Intern</b>	Berkeley, CA <i>Jan 2023 - May 2023</i>
	<ul style="list-style-type: none"><li>Assist a group of 5 students during labs and weekly sections by teaching mini-lectures, debugging, and walking through worksheets to build conceptual knowledge of Python and improve problem-solving skills</li></ul>	
PROJECTS	<b>Improving Deep Neural Clinical Prediction Models with Textual Data Augmentation</b>	
	<ul style="list-style-type: none"><li>Applied textual data augmentation to improve the robustness of Clinical BERT, a finetuned language model adapted to clinical notes, for predicting 30-day hospital readmissions</li></ul>	
AWARDS	<ul style="list-style-type: none"><li>Cal Alumni Association Leadership Scholar</li><li>Google Cloud Next '23 Student Innovator</li><li>1st Place in Computer Science Category at San Diego Science Fair</li></ul>	<i>Aug 2023, 2022</i> <i>Aug 2023</i> <i>May 2021</i>