

EDUCATION

- **University of California, Berkeley** Berkeley, CA
BA Computer Science; Major GPA: 3.71 *Aug. 2017 – May. 2021*
 - **Relevant Coursework:** Data Structures, Artificial Intelligence, Efficient Algorithms and Intractable Problems, Probability and Random Processes, Machine Structures, Principles and Techniques of Data Science(IP), Optimization Models and Applications(IP), Computer Security(IP)

EXPERIENCE

- **Sephora** San Francisco, CA
Software Engineering Intern *May 2019 - Aug 2019*
 - Created endpoints in a REST API using Python, SQL and Flask that allowed the store app development team to test device functionality in an environment with adjustable features like network speed and varying amounts of shared data.
 - Created an Xcode application with Apple's Multipeer framework that allows devices to download and share real-time data with other devices in stores with a P2P connection to optimize usage of the store WIFI latency.
 - Used the Splunk SDK to implement offline data queuing that organized application statistics from offline and online devices to be pushed onto our crashlytics reports.
- **Jobwell** Berkeley, CA
Software Engineer *May 2018 - Nov 2018*
 - Created a chatbot that was able to conduct a simulated interview and store the responses in MongoDB using a Python backend.
 - Enabled the company's job interviewing chatbot to improve word recognition autonomously using Google's API, Dialogflow, and uploaded this feature to the company website using Python and Flask.
- **Codeology Club** Berkeley, CA
Workshop Leader *Aug 2018 - Present*
 - Worked on a project with members in the club that included creating a personalized network modeled off of the resnet network to test on the FashionMNIST Dataset.
 - Created an audio visualization software with the use of OpenGL and PyAudio in order to display a 3d function that reacted to live inputs based off the intensity of a given sound.
 - Led an inclusive workshop on the use cases of machine learning, creating and executing a lesson plan that included the basics of classification, loss functions, and the purpose of various layered networks.
- **UC Berkeley EECS Department** Berkeley, CA
Course Staff Tutor(CS 61A) *September 2019 - Present*
 - Run weekly group tutoring sections for students in UC Berkeley teaching recursion, object oriented programming, and data structures.
 - Lead interactive review sessions to summarize current course topics to help prepare students for exams.
 - Assist weekly in homework and project office hours to help students individually on debugging and understanding fundamental course concepts.

PROJECTS

- **Map Reacts**
 - Aggregated and compiled data on emotional reactions to current events and displayed them in an interactive UI using the BeautifulSoup parser, Python, HTML, and CSS.
 - Utilized the IBM Watson sentiment analyzer in order to compile the most prevalent features in snippets of text and measured the correlation between words and emotions by using cosine similarity functions in pytorch.
- **Farams**
 - Programmed a drone to take soil measurements on farmland, and used this data to optimize farming by reducing water and nutrient consumption.
 - Created project documentation that includes the specs and AutoCAD design of the drones sensors, and presented at the Dublin Entrepreneurship fair in front of judges from Lawrence Labs.
- **Traffic Data Simulation**
 - Created a web application that modeled traffic flow using probabilistic models, including continuous markov chains and exponential distributions.
 - Used ipython notebooks to display graphs of the traffic rate over a unique set of features.

SKILLS

- **Languages:** Python, Java, C, HTML, CSS, Javascript, SQL, Swift
- **Technologies/Libraries:** Git, Pytorch, AWS, Splunk, MongoDB, L^AT_EX