Lily Bhattacharjee

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EDUCATION

UC BERKELEY

B.S. in Electrical Engineering and Computer Science
Expected May 2021 | Berkeley, CA
Cum. GPA: 3.39

COURSEWORK

CS 188: Artificial Intelligence (*)
CS 61C: Computer Architecture (*)
Stat 153: Time Series (*)
Stat 133: Computing in Data (*)
CS 170: Efficient Algorithms
CS 186: Databases
CS 198: iOS Development
Stat 140: Probability in Data Science
Data 100: Principles of Data Science
CS 61B: Data Structures
CS 70: Discrete Math & Probability Theory
CS 61A: Computer Programs
EE 16A / B: Designing Information Systems 1 / 2
EE 198: Hands-on Electronics
EE 198: IEEE Micromouse
Math 53: Multivariable Calculus

SKILLS

PROGRAMMING

Experienced:
Java • Python • Javascript / jQuery • LaTeX • HTML / CSS
Intermediate:
SQL • Swift • React • Angular • R
Familiar:
Redux • PHP • Node • C

SOFTWARE

Experienced:
Git • Jupyter Notebook • Anaconda
Intermediate:
Android Studio • XCode

EXTRACURRICULARS

Data Science Society: DeCal Committee Member

Statistical Undergraduate Student Association: Research & Publication Committee Member

Undergraduate Theoretical Computer Science Group

EXPERIENCE

UC BERKELEY SPACE SCIENCES LAB (SSL)

Software Research Assistant
June 2018 – Dec 2018 | Berkeley, CA

- analyzed test data from instruments on the Ionospheric Connection Explorer (ICON), a NASA Heliophysics satellite focusing on the effect of atmospheric disturbances on weather variability
- used a Javascript library (Cesium) to display current position, fields of view on a live visualization, and Python to automate a file conversion system

UC BERKELEY EECS DEPARTMENT

Course Staff
Jan 2018 – Present | Berkeley, CA

- Jan 2019 - Present: EE 16A Lab Tutor, CS 70 Reader, Info 98 TA: Data Science for Internships DeCal
- Aug 2018 - Dec 2018: EE 16A Lab Tutor, Info 98 TA
- Jan - May 2018: EE 16A Reader, CS 61A Academic Intern + Tutor via CS 370

PROJECTS

MEDIA POLITICAL LEANINGS Python

Jan 2018 – Present
• used Selenium's Python bindings to web scrape > 10,000 recent media news articles on various hot button political topics, including article date published, source, title, summary, and body text • currently working on detecting and quantifying reporting accuracy and bias with Python's NLTK and spaCy

STORIA iOS | Swift

Jan 2018 – Present
• currently creating an iOS app that associates book titles with Spotify soundtracks generated by performing sentiment and theme analysis with IBM Watson's Tone Analyzer on book quotes and summaries from Goodreads • soundtracks can be added to user's account using Spotify's Authentication API

APPEEL iOS | Swift

Aug 2018 – Jan 2019
• developed an iOS app that parses JSON from the Edamam API to return formatted recipe information according to user preferences (e.g. time of preparation, ingredients stored in virtual pantry, etc.) • used Google Firebase for login and account maintenance as well as caching previously accessed recipe data, including an app-specific public rating system • manipulated the Clarifai API to allow users to search recipes by taking pictures of food in which ingredients can be recognized to a certain threshold of accuracy

SPAM EMAIL FILTER Python

Mar 2018 - Apr 2018
• analyzed a dataset of $>$ 1,000 emails to create a model for a classifier to differentiate between spam and ham emails • participated in a Kaggle competition, ranking in the top 32% with an accuracy of 95.4% on the test set

FACEBOOK WORD CLOUD Javascript | Python | Web Dev

Aug 2016 – Sept 2016
• coded a d3 cloud visualization of common words in Facebook chats according to archived account zip files