

Education

- **University of California, Berkeley**

Computer Science B.A.

Statistics B.A.

Berkeley, CA

2015-2019 (Expected May Graduation)

- **GPA:** 4.0 Major/Technical

- **Relevant Coursework:** Data Structures (A+), Machine Structures (A+), Algorithms (A+), Operating Systems (A+), Database Systems (A+), Computer Security (Spring 2018), Discrete Math and Probability Theory (A+), Concepts of Probability (A+), Computing with Data (A), Artificial Intelligence (A+), Machine Learning (A), Natural Language Processing (A+), Data Science (Spring 2018)

Work Experience

- **Amazon**

Software Development Intern

May 2018-Present

- **WePay**

Software Engineering Intern

May 2017-Aug 2017

- Developed a code generation tool to generate customizable SDKs for the WePay API in multiple languages
 - Saved WePay engineers time and resources by automatically generating SDKs on API version changes
 - Collaborated with the API team to design a user-friendly SDK that partner developers use
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Research Experience

- **Berkeley Institute for Data Science**

Data Science for Social Good Projects Team

Feb 2017-May 2017

- Worked with a team to develop a recommendation system to match research grants to Berkeley faculty
- Designed a web app for the Berkeley Research Development Office to use to search for accurate matches
- Set up a pipeline to scrape, preprocess, and store grant website data to use for our recommendations

- **Berkeley Media Studies Department**

Data Analyst/Management - Research Apprentice

Sep 2016-Jan 2017

- Improved the workflow of data entry and data storage by writing scripts in GAS to reduce data entry time
 - Created interactive and dynamic visualizations using d3.js that allow users to create customized charts
 - Streamlined data directly from Google Sheets into a MySQL database using GAS-Python execution calls
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Projects

- **NBA Daily Fantasy Sports Prediction Model (Python)**

Feb 2016-Present

- Cleaned and analyzed player statistics after using web scraping techniques to collect data
- Trained and ensembled XGBoost models using thousands of rows of data to predict a player's score
- Applied a variation of the Knapsack Problem solution to optimize the best lineups for each day
- Designed a dashboard using Flask to collect NBA news and injury reports to make informed decisions

- **Highlight Tool: Google Docs Add-on (360,000+ users)**

May 2015-Dec 2017

- Developed an add-on to help students and educators organize and highlight their Google Docs
 - Interacted with users and their feedback to enhance and add additional features to the add-on
 - Collaborated with the Director of Technology in Education at Berkeley to improve the add-on
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Class Competitions

- **NP Hard Approximation Competition (1st Place)**

CS170 (Efficient Algorithms and Intractable Problems)

- Approximated the Independent Knapsack problem using greedy and hill climbing algorithms
 - Designed the algorithm that produced the most optimal and correct results out of a class of 600 students
 - Presented and explained the various algorithms and thought processes in my solution to the class
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Skills

Proficient Languages: Python, Java, Javascript, SQL, R, Google Apps Script

Experience with: HTML, CSS, C

Tools: Spark, d3.js, Flask, Django, OpenMP