BILLY LIN

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EDUCATION

University of California, Berkeley

GPA: 3.4

Bachelor of Arts (B.A.), Major: Computer Science

Graduation: Jun 2021

- Current Coursework: Principles and Techniques of Data Science, Discrete Mathematics and Probability Theory, Designing Information Devices and Systems I
- **Previous coursework:** Data Structures, Calculus, Foundations of Data Science, Structure and Interpretation of Computer Programs

EXPERIENCE

Madsen Lab Berkeley, CA

<u>Data Analyst</u> Sept 2018 - Present

The Madsen Lab cooperates with the Good Food Purchasing Program to analyze large data sets of national high school food purchases in order to evaluate the ethicality of those purchases.

- Was part of the project initialization, created and managed over 50 dataframes, wrote first lines of code
- Came up with specifications for cleaning the data and also debugged other interns' code
- Used Pandas and NumPy packages extensively in order to analyze data on Google Colaboratory

Berkeley Model United Nations

Berkeley, CA

Vice President of Business Partnerships

April 2019 - Present

BMUN is the oldest Model United Nations Conference in the world and has over 2000 students attend its March conference every year.

- In charge of leading, regularly communicating with, and managing an established 90-person club
- Project portfolio includes a 200-attendee conference in November which I lead, all business partnerships (partners include United Airlines, Marriott Hotels, Pronto Transportation), and conference expansion
- Part of the officer corps that manages a >\$100 000 budget for event bookings, internal development, delegate scholarships, and delegate education

PROJECTS

Gitlet - Java, Git Fall 2019

• A working version of Git "Lite" with Java, which is a Version Control System with the basic commands of Git, such as Add, Commit, Branch, Checkout, Merge, and more. Uses SHA-1 encoding, file serialization and deserialization, and data structure algorithms.

Tablut - Java. Git Fall 2019

• A Scandinavian board game, complete with its own AI for players to compete against. Utilizes Min-Max trees to make decisions.

Bay Area Restaurant Analysis - Python

Spring 2020

• Worked with large datasets of Bay Area restaurant inspections and codebooks to create complex visualizations, utilizing merges, joins, gouping, and multi-indexed dataframes.

TECHNOLOGIES

- Proficient Languages: Python, Java, SQL
- Tools: Git, Google Colaboratory, Jupyter, Unix, Squarespace, PyTorch, Pandas, NumPy

INTERESTS Swim instruction, combat sports, jazz history, international relations