

# Jackson Takashi Hamada

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## Education

### University of California, Berkeley

Data Science, Concentration in Applied Mathematics and Modeling.

Berkeley, CA  
Aug 2021-Present

Relevant Coursework: The Structure and Interpretation of Computer Programs (CS61a), Data Structures (CS61b), Principles & Techniques of Data Science (Data100), Proof Theory (Philos149), Linear Algebra (Math110), Probability for Data Science (Data140), Stochastic Processes (Stat150), Empirical Asset Pricing (Econ144), Data Engineering (Data101), Intro to Time Series (Stat153)

## Leadership & Activities

### Vertical Farming at Berkeley

Berkeley, CA  
2023-2024

- Worked with the engineering team to design and manufacture a vertical farming system with end-to-end automation to produce Japanese strawberries.
- Ensured functionality of hydroponics system; Nutrient mixing/balancing and delivery, design constraints for interaction with robotic arm, and efficiency with scale.

### Foundations of Data Science Tutor/Course Staff

Berkeley, CA  
2023-2024

- Assisted students in lab sections with both conceptual worksheets as well as hands on coding-based labs.
- Taught two small-group tutoring sections per week to aide students in addition to their normal coursework.
- Additional work included grading, office hours, online support, and other course functions.

### Chi Psi Fraternity Executive Committee

Berkeley, CA  
2021-2024

- Held the position of communications manager for three years, maintaining comms. channels and upgrading as needed.
- Held the position of risk manager for one year, ensuring adequate risk procedures and safety during both events and day to day activities.

## Projects

### Roguelike Game

Berkeley, CA  
2023

- Utilized a graph and a minimum spanning tree algorithm to determine the generation of hallways between rooms within the world.
- Added random generation functionality using user seed input and native random class functionality.
- Implemented fully functioning save and load feature via auto-generated text-based save file.

### Disabled Students Program Database System (In Progress)

Berkeley, CA  
2024

- Developed an inventory management and tracking system to consolidate scattered spreadsheet data into a centralized database.
- Implemented a Flask and SQLAlchemy backend to handle data processing and storage with PostgreSQL.
- Designed a user-friendly frontend using React, leveraging Node.js for development and build processes.
- Streamlined workflows with features like inventory edits, image uploads, and dynamic value constraints.

## Personal Ventures

### Grailed Inc. E-Commerce Shop

La Canada, CA  
2018 – 2022

- Co-Managed two separate e-commerce shops with over 500 total sales, with transactions at a peak of over \$50,000 in 2018.
- Upheld customer service standards to maintain a 5.0 service score, often selling to high-end clients.

## Skills & Interests

**Technical:** Python, NumPy, Pandas, Seaborn, Matplotlib, Statsmodels/Linearmodels, Java, HTML, CSS, SQL  
**Languages:** English, German (4 Years High School)