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## **Education**

### **University of California, Berkeley**

08/2016 - 05/2020

B.S. Electrical Engineering and Computer Science, focus in Math and Statistics

**Coursework:** Machine Learning, Random Algorithms and Combinatorics, Probability and Random Processes, Data Structures, Linear Algebra, Numerical Analysis, Efficient Algorithms, Engineering Economics, Information Theory (Graduate)

In Progress: Signal Processing, Abstract Algebra, Database Systems

## **Skills and Tools**

Proficient: Python (+numpy, scipy, Jupyter/iPython, pandas), Java (+Swing/JavaFX), LaTeX

Familiar: Tensorflow, scikit-learn, SQL, MATLAB, C++, Scheme, Swift/iOS, HTML, CSS, Javascript (+node.js), Git

# **Experience**

### Software Engineering Intern • McKinsey & Company (New York, NY)

06/2018 - 08/2018

- Worked on the Healthcare Ecosystem Manager dashboard as part of the Healthcare Analytics and Delivery team
- Used SQL to query a Hive database of healthcare claims data from the largest healthcare payers in the nation
- Refactored JavaScript (ExpressJS) API to follow Model-View-Controller convention, improving code reusability

#### Undergraduate Student Instructor • UC Berkeley Department of EECS (Berkeley, CA)

08/2017 - Present

- Recipient of the 2017-2018 campus-wide Outstanding Graduate Student Instructor award
- Teaching Assistant for Data 100, an intermediate-level data science course teaching inference and machine learning
- Responsible for helping create auxiliary content, staffing office hours, helping create exams and teaching a section
- Previously TA'd Introductory Programming (CS 61A) and Introductory Data Science (Data 8)

#### Founder and Lecturer • Introduction to Mathematical Thinking (Berkeley, CA)

11/2017 - Present

- Currently lecturing and creating content for an all-new student-run course (<a href="http://imt-decal.org">http://imt-decal.org</a>)
- The course aims to provide students with mathematical maturity with a contest-math flair before taking more challenging courses needed to declare the CS major, such as Discrete Math and Probability Theory
- Will use student background and performance data from the course to investigate the effectiveness of prep courses

#### **Mentor and Co-coordinator •** Computer Science Mentors (Berkeley, CA)

01/2017 - Present

- Responsible for teaching an auxiliary section of six students concepts from CS 70 Discrete Math and Probability
- In charge of ensuring all ~40 CS 70 mentors are familiar with worksheets and aiding newer mentors pedagogically

# **Projects**

- Cal Hacks (10/2017): Helped organize and run the nation's largest ever collegiate hackathon
- Database (03/2017): A relational database that supports column operations in Java
- Digital Jams (03/2015): Web application that allowed users to simultaneously play instruments with each other
- iPaint (01/2014): Graphic design program in Python that featured undo/redo, crop, filtering algorithms and text insertion