Suraj Rampure

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Education

University of California, Berkeley
B.S., Electrical Engineering and Computer Science ***08/2016 - 05/2020***

Coursework: Data Structures, Machine Learning, Databases, Random Algorithms and Combinatorics, Probability and Random Processes, Abstract Algebra, Numerical Analysis, Efficient Algorithms, Information Theory (Graduate), Machine Architecture (in progress), Number Theory (in progress)

Experience

Head Undergraduate Student Instructor (Teaching Assistant)
UC Berkeley, Department of EECS / Statistics *(Berkeley, CA)* ***08/2017 - Present***

- Responsible for teaching discussion sections, holding office hours, writing and grading exams, training newer TAs and assistants, and handling logistics for courses with enrollments near 1000 students
- 6x TA, and 3x Head TA for Data 100, Berkeley's intermediate data science course, teaching introductory ML
- Recipient of the 2017-2018 campus-wide Outstanding Graduate Student Instructor award, awarded to the top 9% of TAs on campus, and invited to lead the First Time GSI conference held each semester

Software Engineering Intern
McKinsey & Company *(New York, NY)* ***06/2018 - 08/2018***

- Developed 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 the Model-View-Controller convention, improving code reusability

Extracurriculars

- **Computer Science Mentors**: Campus organization that facilitates small group tutoring for introductory EECS courses. Served as the External Vice President, and Course Coordinator (lead mentor, in charge of worksheet development and mentor training).
- **Introduction to Mathematical Thinking**: Developed and lectured a student-run course designed to prepare students for Berkeley's rigorous Discrete Math course. Over 160 students enrolled over 2 semesters.
- **Cal Hacks**: Helped organize and run the nation's largest ever collegiate hackathon. Aided with day-of logistics and outreach.

Projects

- **iPaint:** Graphic design program in Python that featured undo/redo, crop, filtering algorithms and text insertion.
- **Database:** Relational database in Java that supports column operations.
- **Digital Jams:** Web application that allows multiple users to simultaneously play instruments with each other.

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