Suraj Rampure

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Education

University of California, Berkeley
Berkeley, CA **Aug. 2016 – Present**
B.S. – Electrical Engineering and Computer Science
Class of 2020 **CS/Math GPA: 3.77**
Completed Coursework: Calculus, Structure and Interpretation of Computer Programs, Discrete Math and Probability Theory
In Progress: Data Structures & Algorithms, Linear Algebra, Numerical Analysis, Designing Information Devices

Vincent Massey Secondary School
Windsor, ON **Sept. 2012 – June 2016**
Class president. 92% cumulative average in the rigorous Enriched program.

Experience

UC Berkeley EECS Department – Tutor, Data 8
Berkeley, CA **Jan. 2017 – Present**
- Holding weekly tutoring sessions and office hours for introductory data science course, teaching statistics and programming
- Helping develop course website and supplementary Python packages, assignments and other course infrastructure (i.e. video walkthroughs)

Computer Science Mentors – Junior Mentor, CS 70
Berkeley, CA **Jan. 2017 – Present**
- Leader of two weekly adjunct sessions for students in Discrete Mathematics and Probability Theory for Computer Science
- Covering topics such as RSA encryption, Stable Marriage Algorithm, continuous probability

Cal Hacks – Hackathon Director
Berkeley, CA **Feb. 2017 – Present**
- New director of sponsorship for the nation's largest hackathon, Cal Hacks
- In previous years, the event brought in 2000+ students from across the US for 36 hours

Languages and Tools

Proficient: Python, Java, LaTeX, Swing/JavaFX, Git/GitHub, Pixelmator/Photoshop, Sketch 3, Jupyter/iPython, NumPy
Familiar: Scheme, MATLAB, Pandas, C++, Swift/XCode, HTML, CSS, Javascript, node.js, socket.io, Bash, SQL

Projects

Database (Java)
Wrote a relational database system from scratch. Supports conditional queries, and implements joins.

NBA Analytics (Python + Pandas)
Attempts to find patterns between mid-season seedings and year-end seedings throughout NBA history.

"Textris" – Command Line Based Tetris (Java, Swing)
A remake of Tetris where tetrominoes are controlled by text shortcuts as opposed to arrow keys.

Collaborative Piano (HTML, CSS, JS + socket.io, node.js)
Allows users to play with a piano online along with their friends – everyone on the site hears the same thing.

Shades of Grey (iOS in Swift)
An iPhone app that calculates the number of unique shades of grey that are present in an image.

Graphic Design Application (Python + Pygame)
"iPaint" – a functional graphic design application that included painting, text, recursive flood-filling and image filtering algorithms.

Awards

- **Euclid Mathematics Contest**: Top 3% in Canada, (15,000+ participants)
- **AMC Contest:** Top 10% in the AMC 12, 2015, 2016
- **Graduation Awards:** Student Council Leadership Award, Gord Caldwell Leadership Scholarship and Jessica Lei Memorial Scholarship (June 2016)
- **University of Waterloo**: Invited to UW's "Exploring Math and CS" Workshop for strong seniors (October 2015)