Rohit **Batra**

SOFTWARE ENGINEER

□ 571-252-9355 | ✉ rb4jx@virginia.edu | ⌂ rohitbatra.me | ○ rohitbatra1 | in rbatra2019

Education

University of Virginia *Charlottesville, VA*

B.S. IN COMPUTER SCIENCE *August 2019 - May 2022*

- Honors: Dean's list

Experience

Janelia Research Campus *Ashburn, VA*

SOFTWARE ENGINEER INTERN *June 2019 - August 2019*

- Developed 13 Unique Object Masks for 3D Cell Volumes
- Utilized Scikit-image & SciPy Image Processing with Dask Parallelism to Process Larger than Memory Datasets
- Directly Contributed to More Efficient Machine Learning Pipeline
- Stack: Python, Dask, Scikit-image, SciPy

Janelia Research Campus *Ashburn, VA*

PROJECT INTERN *June 2018 - August 2018*

- Developed Ground Truth Data
- Proofread Machine Learning Predictions & Implemented Corrections
- Project will Automate Organelle Segmentation & Allow for Data Mining of Large 3D Cell Volumes

Mathnasium *Leesburg, VA*

LEAD HIGH SCHOOL INSTRUCTOR *January 2018 - June 2019*

- Instructor for All Levels of Math up to Calculus
- Helped Students Build a Strong Math Foundation
- Worked with Students of All Ages

Projects

ImageFinder for Safari

INDIVIDUAL PROJECT *May 2020*

- Adds Reverse Image Search to Safari Through Google & TinEye as Context Menu Options
- Published on the Mac App Store: 400+ Downloads
- Stack: Swift + JavaScript

NCAA Tournament Simulator

INDIVIDUAL PROJECT *April 2020*

- Developed an NCAA Tournament Simulator
- 3 Unique Simulation Strategies Based on ELO Ratings
- Stack: Java + JSON

Machine Learning Research

GROUP RESEARCH *August 2018 - April 2019*

- Research Concerning the Performance of Different Machine Learning Algorithms with Respect to Task Efficiency & Accuracy
- 3 Algorithms Compared Across 3 Unique Tasks
- Gathered Statistically Significant Results Regarding Situational Performance of Different Algorithms

Skills

Languages   C/C++ | Java | Swift | Python | JavaScript | SQL | HTML | CSS | LaTeX

Honors

2019   **National Merit Scholar**, Top 1% Nationwide on PSAT. *U.S.A*