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Coursework

- CS 2102 Discrete Mathematics
- CS 2501 Software Development Essentials
- CS 2501 Computer Organization & Architecture
- CS 2501 Data Structures & Algorithms
- CS 3102 Theory of Computation
- CS 3205 HCI in Software Development
- CS 4620 Compilers
- CS 4720 Mobile Application Development
- APMA 3100 Probability

Activities_

- ACM
- HackCville
- Computer & Network Security Club

Honors____

• National Merit Scholar

Skills

- Languages C | C++ | Java | Python | Swift | CSS | HTML | JavaScript | SQL | MT_FX
- Tools Git | Jupyter | NumPy | SciPy | Dask

Education

University of Virginia

B.S. IN COMPUTER SCIENCE

· Honors: Dean's list

Charlottesville, VA

August 2019 - May 2022

Experience_

Arcturus Technologies

SOFTWARE ENGINEER INTERN

Leesburg, VA

June 2020 - August 2020

Janelia Research Campus

SOFTWARE ENGINEER INTERN

Ashburn, VA 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, NumPy, 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 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

- Adds reverse image search to Safari as context menu options
- Published on the Mac App Store: 1000+ Downloads
- Stack: Swift + JavaScript

NCAA Tournament Simulator

INDIVIDUAL PROJECT

- Developed an NCAA tournament simulator
- 3 unique simulation strategies based on ELO ratings
- Stack: Java + JSON

Machine Learning Research

GROUP RESEARCH

- · 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