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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
- * DENOTES ONGOING COURSE

Activities

- AC.M
- HackCville
- Computer & Network Security Club

Honors_

• National Merit Scholar

Skills

- Languages C | C++ | Java | Python | Swift | CSS | HTML | JavaScript | SQL | LATEX
- 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

Leesburg, VA

SOFTWARE ENGINEER INTERN

June 2020 - August 2020

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 by reducing training
- · Stack: Python, NumPy, Dask, scikit-image, SciPy

Janelia Research Campus

Ashburn, VA

DATA PROCESSING INTERN

June 2018 - August 2018

- Generated & prepared ground truth data for machine learning
- 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

- Developed a macOS application which 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