Sam Smith

EDUCATION

North Carolina State University

Raleigh, NC

MS, Computer Science; GPA: 3.9

Aug 2022 - Dec. 2023

Clemson University

Clemson, SC

BS, Mathematics | BS, Computer Science; GPA: 3.95

Aug 2018 - May 2022

Work Experience

North Carolina State University

Raleigh, NC

Teaching Assistant

Aug 2022 - Dec 2022

o Assisted with grading assignments, helping students, and course management for Ethics of Computing

Giant Oak Clemson, SC

Capstone Project Leader

Jan 2022 - May 2022

- Led pipeline development for named entity recognition in large-scale web data
- BGuided agile team in research decisions, development plans, and individual responsibilities
- o Optimized natural language processing models using Python libraries such as PyTorch and NLTK

NASA Goddard Space Flight Center

Remote

Data Science Intern

Jun 2021 - Aug 2021

- Led development of NLP models to streamline user support ticket resolution
- o Conducted data pre-processing and feature extraction to optimize model performance
- Communicated technical progress to non-technical stakeholders

RESEARCH EXPERIENCE

North Carolina State University

Raleigh, NC

Research Assistant

Jan 2023 - May 2023

- o Developed physics-based neural networks to remove clouds and their shadows from satellite images
- o Conducted in-depth literature reviews of state-of-the-art approaches and implemented them using Python
- Analyzed model performance and identified areas for improvement

Clemson University

Clemson, SC

Unergraduate Researcher

Aug 2021 - Dec 2021

o Developed R and Python software to simulate natural forests, segment individual trees, and visualize results

Monero Research Lab

Remote

 $Research\ Intern$

Aug 2020 - May 2021

- o Developed and ran simulated hacker attacks to improve blockchain transaction security
- Evaluated effectiveness of attacks to assess privacy of transactions
- Wrote Python code that was well-structured, documented, and rigorously tested

Michigan State University

Remote

 $Under graduate\ Researcher$

May 2020 - July 2020

- Collaborated with a team to study a variation of convolutional neural networks
- Reproduced and applied the model to new classification domains using Python
- Presented findings at 5 professional conferences, including the Joint Mathematics Meetings

SKILLS

- Languages: Python, R, C++, Java, SQL, HTML, CSS, JavaScript
- Libraries: PyTorch, Scikit-Learn, NLTK, Pandas, NumPy, Matplotlib, Seaborn, OpenCV, React
- Tools: Git, Linux, AWS(S3,EC2), Jira, Apache Airflow, Agile