

Sam Smith

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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
 - 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
 - Guided agile team in research decisions, development plans, and individual responsibilities
 - 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
 - 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
 - Developed physics-based neural networks to remove clouds and their shadows from satellite images
 - 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
Undergraduate Researcher Aug 2021 - Dec 2021
 - 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
 - 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
Undergraduate 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, Jira, AWS(S3,EC2), Apache Airflow, Tableau, Power BI