

# Sam Smith

 scs5 |  scsmith5 |  scoo.dev |  scsmith305@gmail.com |  +1-864-643-8969

## EDUCATION

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- **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

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- **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

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- **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

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- **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