Sam Smith

Email: scsmith305@gmail.com
Mobile: +1-864-643-8969
Links: [LinkedIn](), [Portfolio]()

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 - NLP — *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
NSF 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
- **Tools and Libraries**: Git, Jira, PyTorch, Scikit-Learn, NLTK, Pandas, NumPy, Matplotlib, Seaborn, OpenCV, React

HONORS AND AWARDS

- **Faculty Senior Award in Mathematics** | Clemson University — *Apr 2022*
- **Joel Vincent Brawley Award in Mathematics** | Clemson University — *Apr 2021*
- **Faculty Sophomore Award in Mathematics** | Clemson University — *Apr 2020*
- **Faculty Freshman Award in Mathematics** | Clemson University — *Apr 2019*