Sam Smith

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Links: LinkedIn, Portfolio

Education

- **North Carolina State University** — Raleigh, NC
  MS, Computer Science; GPA: 3.93 — *Aug 2022 - Dec 2023* (Expected)
- **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
  Student Team Lead — *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*