**Solomon Sam**

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**education**

**Georgia State University Atlanta, Georgia**

**Bachelor of Business Administration, Computer and Information Science 2019 - 2022**

* GPA: 3.97/4.00
* Relevant course work: Introduction to computer programming, Object Oriented Programming, Database Management Systems, Cybersecurity Tools, Cloud Fundamentals, Project Management, Statistical Analysis

**work experience**

**Center for Translational Research in Neuroimaging & Data Science Atlanta, Georgia**

*Software Engineer Research Intern***May 2022 - August 2022**

* Analyzed thousands of Brain fMri scans across distributed computing clusters, collaborating with Senior Research Engineers on further methods of brain analysis
* Collaborated with Lead Researcher to design brain processing algorithms; conducted test code runs, utilized technologies such as DASK and NumPy (Python packages), Linux
* Co-authored research under a brain analysis method, Independent Vector analysis, at the Scientific Computing Day Conference

**Fulton County IT Department Atlanta, Georgia**

*Data Analyst Intern***September 2022 – December 2022**

* Partnered with lead data engineers to set up machine learning models in R and Python (Random Forest, SVM, XGBoost) for predictive case analysis, achieving an 85% accuracy
* Managed large datasets and cleaned thousands of lines of data periodically using Tableau Prep to improve efficiency of case management
* Redesigned and deployed rich graphic visualizations and reports in Tableau and PowerPoint according to client’s business specifications
* Coded , tested and debugged SQL queries against huge databases to improve code runtime

**Student Success - TRIO GSU Upward Bound Programs Atlanta, Georgia**

*Student Assistant***September 2020 – December 2022**

* Provided academic instruction in IT, mathematics, laboratory sciences, composition, literature, and foreign languages; developed plans for improved student instruction for 30+ students weekly.
* Tutored, mentored, and managed dozens of students typically underrepresented in postsecondary education, leading to increased academic performance

**academic projects**

**IVA: Neuroimaging at Scale June 2022 - August 2022**

* Tested feasibility of implementing resource hungry algorithm (IVA) in a distributed manner over several computing clusters
* Utilized Python package DASK and SLURM Workload Manager (Linux) for simultaneous computations across different network clusters
* Revealed limitations in DASK IVA computations but saw a 30% increase in loading data from fMRI scans.

**certifications/ exams and program skills**

Programming Languages/Skills: Python | SQL | R | HTML | Django | Azure

Certifications: CompTIA Security + (Network Protocols, TCP/IP, Subnetting etc.)

Operating Systems: Linux | Windows

Tools: Git | Tableau | Microsoft SQL Server | Oracle SQL Developer | Microsoft Office Suite (Excel/Word)

**leadership and involvement**

**Scholar - Math Path Program Atlanta, GA**

*Center for the Advancement of Students and Alumni (CASA)***Summer 2022**

* Selected as one of 20 for an 8-week professional development program for high-achieving diverse talent
* Engaged in professional development seminars hosted by partners, TReNDS Center and the Math Alliance.
* Led a team of 4 and presented a capstone summer project in closing symposium CSV)