

Sarah Ramboyong

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Active TS/SCI Security Clearance with FS Polygraph

Education

Virginia Tech, College of Engineering – Blacksburg, VA Aug 2022 – May 2024
Master of Science in Computer Science & Applications
Data Analytics & Artificial Intelligence Concentration

Virginia Tech, College of Science Academy of Integrated Science – Blacksburg, VA Aug 2020 – May 2023
Bachelor of Science in Computational Modeling & Data Analytics, Honors Laureate Diploma
Cryptography & Cybersecurity Concentration
Minors: Computer Science, Math, Organizational Leadership
Member of Honors College, Dean's List Fall 2020, Spring 2021, Fall 2021, and Spring 2022 Cumulative GPA: 3.7/4.0

Relevant courses: Data Analytics & Visualizations, Machine Learning, Cryptography, Mathematical & Computational Modeling, Computer Organization, Data Structures & Algorithms, Info Security, Software Design, Software Development

Skills

Python | Java | R | C | SQL | Kotlin | Linux | Latex | JSON | HTML/CSS | Git | Splunk | Docker | HPC | ML | SciKit-learn | TensorFlow | NumPy | pandas | MATLAB

Related Experience

- Paid Intern, Department of Justice** June 2022 - Present
- Completed data entry, cleaning, and analysis and created streamlined cleaning processes for future use
 - Became Splunk Certified and used skills to create dashboards to display large datasets
 - Assisted with managing multiple projects focused on cybersecurity and law enforcement
- Researcher, DataBridge** – Blacksburg, VA Jan 2022 – May 2022
- Completed training courses in data visualization, analysis, web scraping, analysis scripts, and data management
 - Researched Python libraries and pre-existing methods to read protein files and analyze molecular modules
 - Analyzed accuracy of automated molecular module analysis for potential use in molecular modeling and bioinformatics lab
- Fellow, Raytheon Fellowship Program** – Blacksburg, VA Aug 2021 – Dec 2021
- Attend bi-weekly lectures and work to complete a project-based curriculum throughout the Fall and Spring semesters
 - Focus on topics related to cyber security and machine learning to support Raytheon and the U.S. Dept. of Defense
- Software Engineering Intern, The MITRE Corporation** – McLean, VA May 2021 - Aug 2021
- Handled information labeled as Controlled Unclassified Information
 - Utilized Java and API development to implement additional features to existing code software plugin for DoD Sponsor
- Data Analysis Intern, The MITRE Corporation** – McLean, VA Feb 2021 - Aug 2021
- Identified misinformation associated with COVID treatment and vaccines
 - Collected data from a variety of social media platforms using a MITRE designed reporting software
 - Enabled public and health care leaders to make informed decisions to combat misinformation
- Researcher, The Hume Center for National Security and Technology** – Blacksburg, VA Jan 2021 - May 2021
- Tracked and quantified how personal identifiable information is shared across the Internet
 - Developed a Python script to evaluate twenty-eight privacy policies and analyzed data gathered
 - Worked with twenty other researchers to produce a research paper and presented at Blackhat 2021 conference
- Virginia Tech Softball Analysis Team** – Blacksburg, VA Nov 2021 – May 2022
- Support Virginia Tech Softball staff with data-driven analysis of players
 - Mine data (~3000 entries per game) and conduct preliminary analysis of pitchers/hitters
- Member, Baseball Pitching Sports Data Analytics** – Blacksburg, VA Sept 2020 - Dec 2020
- Utilized knowledge, skills, and techniques in R to generate accurate, precise in-depth analysis on players' pitches

Publications

“Quantitative Rubric for Privacy Policy Analysis,” SpringerLink Jan 2022

Awards & Honors

- IC CAE Scholar, The Hume Center for National Security and Technology** – Blacksburg, VA Sept 2020 - Present
- Demonstrates academic, professional, and research skills with interested in pursuing career in the federal intelligence community
- Virginia Tech GERMAN Club Rising Senior Leadership Award** 2022 Recipient
- Exemplified academic achievement, exhibiting strong leadership in extracurricular involvement, and embodies Ut Prosim
- Virginia Tech GERMAN Club Executive Committee** 2021 Recipient
- Awarded to rising junior exemplifying academic achievement, extracurricular involvement, and Ut Prosim
- Virginia Tech Pamplin Leadership Award** 2020 Recipient
- Demonstrated superior academic performance, dedication to their communities, and unimpeachable integrity
- Virginia Tech Alumni Association Scholarship National Capital Region Chapter** 2020 Recipient
- Merit-based scholarship awarded to incoming-freshman emphasizing community involvement