

KIRTI SHUKLA

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EDUCATION

VIRGINIA TECH, Blacksburg, VA August 2020 - May 2023
B.S. Computer Science | Human-Computer Interaction minor (graduating one year early) Current GPA: 3.57

FREEDOM HIGH SCHOOL/ACADEMY OF SCIENCE, Loudoun County, VA Graduated June 2020
Advanced High School Diploma from public school and STEM research magnet school GPA: 4.48

RELEVANT COURSEWORK:

Past: Applied Combinatorics, Software Design, Discrete Math, Entrepreneurship, Data Structures & Algorithms
Current: Probability & Statistics, Computer Systems, Artificial Intelligence, GUI Programming & Graphics

SKILLS Java, Python, Jupyter Notebooks, MATLAB, Git, C#, C, Linux, SQL, R, Agile methodologies,
MS Excel analytics and process automation, data extraction and transformation, data-driven decision making

EXPERIENCE

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Langley Research Center
Analysis and Decision Support Intern June 2022 – Present

- Programmed an automated process for updating data and tracking changes in NASA's satellite mission databases
- Collaborated on a research team building a virtual dashboard that provides data and analytics of space missions
- Demonstrated adaptability, initiative, and a growth-oriented mindset while working on NASA's large datasets

OPTIMAL SATCOM, INC. Herndon, VA
Junior Software Engineer (Summer Internship) June 2021 – August 2021

- Interned at a company that provides enterprise systems and software tools for managing satellite capacity/networks
- Efficiently worked on a diverse team of developers by demonstrating strong written and oral communication skills
- Developed software solutions for satellite management products and services in a dynamic, fast-paced environment

CORRELATION ONE: DATA SCIENCE FOR ALL / EMPOWERMENT Virtual
Fellow October 2020 – March 2021

- Awarded Certificate of Data Analytics upon completing fast-paced, rigorous training program in data science
- Gained full-stack data fluency by learning business and technical skills focused on leadership and teamwork
- Mastered practical knowledge of exploratory data processing and statistical approaches to abstract problems

PROJECTS & RESEARCH

Undergrad Research Position: OSINT-in-a-Box January 2022– Present
■ Creating online interactive server platform providing custom information and tools to combat disinformation
■ Implementing open-source intelligence, extensive research, and UX design to create long-term, thorough solutions

Undergrad Research Position: Virginia SmallSat Data Consortium January 2021– May 2021
■ Implemented Data Cube and Google Earth Engine for geospatial satellite data to analyze wildfire susceptibility
■ Exhibited curiosity and attention to detail during study of land surface temperatures for ecological applications

Data Analysis: Identifying Factors to Determine COVID -19 Vaccine Priority October 2020 – March 2021
■ Collaborated with teammates to apply analytical techniques and presentation skills to real-world issues using data
■ Gained extensive experience in data extraction and analysis; focus on impact on future vaccine distribution plans

ACTIVITIES

Alpha Omega Epsilon (STEM professional/social sorority) March 2021 – Present