

# Shaandro Sarkar

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## Education

### Virginia Commonwealth University

Richmond, Virginia

CANDIDATE, BS IN MATHEMATICAL SCIENCES

May 2022

- Concentrations in Mathematics and Statistics
- Honors College and Global Education Certificate Program

## Skills

**Programming** Python, R, SAS, Wolfram Mathematica, LaTeX  
**Applications** Microsoft Office, Google Applications, IBM SPSS Statistics  
**Languages** English, Bengali, Spanish, Portuguese, Hindi, Urdu

## Experience

### Nanoinformatics

Richmond, Virginia

RESEARCH IN NATURAL LANGUAGE PROCESSING

January 2020 – Present

- Developed Medinify, a tool for classifying keywords in pharmaceutical reviews using Python.
- Collaborated with undergraduate and graduated students to implement machine learning models in text classification.

### VCU Campus Learning Center

Richmond, Virginia

TUTOR

January 2020 – Present

- Developed strong communication skills by tutoring undergraduate students in mathematics, statistics, and Spanish in one-on-one and group settings.
- Led and recruited participants for a weekly Spanish-language conversation group.

### VCU Votes

Richmond, Virginia

SOCIAL MEDIA MANAGER (TWITTER)

August 2020 – December 2020

- Managed online communications via Twitter to increase student voter turnout.
- Accrued over 80,000 impressions and 3,750 engagements in three months using data-driven post scheduling and content creation.
- Analyzed and reported Twitter analytics data using Excel to VCU faculty and administrators.

### VCU Honors Summer Undergraduate Research Program

Richmond, Virginia

RESEARCHER FOR THE GEOMETRY OF THE QUANTUM SATISFIABILITY PROBLEM, UNDER DR. MARCO ALDI

May 2020 – August 2020

- Developed criteria for whether an instance of the quantum satisfiability problem is solvable using algebra and graph theory.
- Presented results at a symposium open to the public.

### VCU Department of Mathematics and Applied Mathematics

Richmond, Virginia

TEACHING ASSISTANT

August 2019 – December 2019

- Graded student work and held weekly review sessions for College Algebra.

### Capital One

McLean, Virginia

PARTICIPANT, SUMMIT FOR DEVELOPING LEADERS

May 2019

- Developed and presented a plan to increase accessibility of financial services to immigrant populations by 75% using data analytics.
- Gained communication, teamwork, and problem-solving skills through a competitive development program for college freshmen and sophomores.

## Honors & Awards

- 2018 **Presidential Scholarship**, Virginia Commonwealth University
- 2017 **Regional Finalist**, International Mathematical Modeling Challenge (IM<sup>2</sup>C)