

Emma Spinale

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EDUCATION

UNIVERSITY OF RICHMOND

BACHELOR OF SCIENCE

MATH/COMPUTER SCIENCE

Expected May 2021 — Richmond, VA

Overall GPA: 3.9

Dean's List

Phi Eta Sigma Honors

SELECTED COURSES

Multivariate Calculus

Probability Theory

Linear Algebra

Abstract Math

Simulation in R

Data Structures

Discrete Structures

Algorithms

Databases

(Completed by Summer 2020)

Software Systems Development

Computer Organization

Abstract Algebra

Differential Equations

Numerical Analysis

SKILLS

LANGUAGES

Python

Java

C++

SQL

R

TeX

JavaScript

HTML/CSS

Shell

MIPS

PHP

CONTACT



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EXPERIENCE

THE MITRE CORPORATION — CYBERSECURITY SOFTWARE ENGINEERING INTERN

May - August 2019 — Bedford, MA

- Created a secure, scalable, internal self-service platform for data ETL, storage, analytics, and exploitation
- Constructed the data ingest process and designed an advanced schema in MySQL through Amazon RDS
- Collaborated with a small team using agile software development methods to promote responsibility and accountability

UNIVERSITY OF RICHMOND COMPUTER SCIENCE DEPARTMENT — LAB ASSISTANT

Winter 2020 - Present — Richmond, VA

- Aid fellow Computer Science students in developing problem solving skills and algorithmic intuition.
- Identify, explain, and help correct bugs in students' Python, Java, and C programs.

UNIVERSITY OF RICHMOND — WRITING CONSULTANT

Winter 2018 - Present — Richmond, VA

- Spend 8-10 hours weekly meeting with students, editing essays, and providing feedback.
- Selected via appointment by english faculty due to excellence in academic writing.
- Completed 40 hour intensive training course to refine editing and communication skills.

UNIVERSITY OF RICHMOND MATHEMATICS DEPARTMENT — UNDERGRADUATE RESEARCH TEAM MEMBER

Fall 2018 - Spring 2019 — Richmond, VA

- Worked with a small team of students and faculty to create further breakthroughs in the field of coding theory.
- Identified and developed strategies to reduce errors in long-distance communication signals.

LEADERSHIP & ACTIVITIES

SPIDERS AGAINST SEXUAL ASSAULT AND VIOLENCE — MEMBER

Fall 2017 - Present — Richmond, VA

- Work closely with administration to raise awareness of and propose solutions to the issue of sexual assault on college campuses.
- Successfully lobbied administration to expand their sexual assault resources on campus.
- Worked with Title IX coordinators to develop training and workshops for students and faculty to address issues around sexual violence.