

Rachel Keiser

rachelk00@vt.edu | Blacksburg, VA

EDUCATION

B.S. in Computer Science

Expected: May 2023

Minor: Cybersecurity

Virginia Polytechnic Institute & State University (Virginia Tech) – Blacksburg, VA

GPA: 3.99/4.00

Honors Presidential Global Scholars Program – Developed global perspective while studying abroad for a semester in Switzerland, expanding critical thinking across disciplines while experiencing new cultures

Advanced Studies Diploma

June 2019

Langley High School – McLean, VA

GPA: 4.2/4.0, Graduated with Honors

EXPERIENCE

Student Trainee, Naval Surface Warfare Center, Dahlgren, VA

May – August 2022

- Hold active DoD Secret security clearance
- Improved C++ missile launch simulation by porting algorithms to Java and adding documentation
- Used Agile development practices to optimize productivity and workflow
- Developed Java tools to verify software-generated mission data meets Quality Assurance requirements
- Wrote unit tests using GTest and Mockito to ensure correctness of code

RESEARCH & EXTRACURRICULAR ACTIVITIES

Independent Undergraduate Research

January – May 2022

- Wrote 20+ page paper conducting in-depth analysis of effects of single-use plastics across cultures
- Presented findings to a group of 30 peers

CyberCorps SFSCon 2021

November 2021

- Practiced using Kibana to analyze log files and identify suspicious activity on a web server
- Implemented multiple layers of security protections to protect a Linux server
- Learned how to perform a penetration test on a Linux system using Nmap and Metasploit

Girl Scouts Council of the Nation's Capital, Troops 2205 and 1692

September 2007 – June 2019

- Built marketing and business ethics skills through cookie and magazine sales
- Worked with other girls in my troop to plan community events
- Took action to spread awareness of mental and physical health issues in my community

LEADERSHIP

President, Lutheran Outreach at Virginia Tech

April 2021 – Present

- Collaborate frequently with other officers to organize events and expand outreach
- Lead monthly meetings with 6 board members to plan next actions
- Assess state of the organization, identifying successes and areas for improvement
- Communicate with organization members through verbal announcements at weekly meetings

Treasurer, Lutheran Outreach at Virginia Tech

October 2020 – April 2021

Chair of Activities, Lutheran Outreach at Virginia Tech

April 2020 – April 2021

Team Captain, AFA CyberPatriot, Langley High School

September 2017 – May 2019

SKILLS

- **Computer Programming/Development:** Java, C, Python, HTML/CSS, JavaScript, SQL
- **Foreign Languages:** French, Italian
- **CompTIA Security+** May 2019 – Present
- **TestOut Security Pro** April 2019 – Present

AWARDS & HONORS

- **Dean's List** – Virginia Tech College of Engineering Spring 2022
- **Norrine Bailey Spencer Strong Start Honoree** – Virginia Tech Honors College Fall 2019