

# Shreyas Mayya

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## Experience

- **University of Virginia Department of Computer Science** **Charlottesville, VA**  
*Undergraduate Teaching Assistant* *1/2023 – Present*
    - Serve as a teaching assistant for UVA CS 3140 "Software Development Essentials", a computer science program requirement with over 450 students in the Spring 2023 semester. The course teaches students about technologies and best practices associated with software engineering.
    - Answer questions during office hours, help students debug code, and grade assignments and exams.
  - **Thomas Jefferson High School for Science and Technology** **Alexandria, VA**  
*Lead Student Systems Administrator* *5/2019 – 6/2022*
    - Maintained and managed critical technology at the TJHSST Computer Systems Lab – including over 30 servers, 60 workstations, and two high-performance computing clusters – as part of a highly exclusive team. Services provided by the CSL include TJHSST's internally-developed intranet, web hosting, email, and cluster access.
    - Implemented an annual password reset requirement, reorganized TJHSST's DNS configuration, and led a technology refresh of the lab in collaboration with school and district IT professionals, effectively improving lab security and reliability.
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## Education

- **University of Virginia** **Charlottesville, VA**  
*Bachelor of Science, Computer Science* *8/2022 – Present*
    - GPA: 4.000/4.000
    - *Activities and societies:* Computer and Network Security, Association for Computing Machinery, Science Olympiad, Cavalier Symphony Orchestra, *The Cavalier Daily*
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## Awards and Certifications

- **National Collegiate Cyber Defense Competition Finalist** *4/2023*
    - Specialize in Linux systems defense on the University of Virginia's CCDC team, which won first place at the 2023 Mid-Atlantic CCDC regional tournament and was one of ten teams selected to compete at the 2023 National Collegiate Cyber Defense Competition.
    - The competition involves defending an enterprise-scale network from a skilled red team, performing business tasks, and interacting with company executives, employees, and clients.
  - **Amazon Web Services Certified Cloud Practitioner** *1/2023*
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## Projects

- **Duosmium Results** *10/2020 – Present*
    - Maintain popular (10,000 users/month at peak) results archive and publisher for Science Olympiad, a nationwide science competition. The Duosmium platform has been used by organizations around the country, including the Virginia and Southern California state chapters and the 2022 National Tournament.
    - Develop website (written in JavaScript and 11ty with Bootstrap-based front-end), source historical data, and collaborate with organizations using the platform for their tournaments.
    - Lead redesign of website using TypeScript, NextJS, and PostgreSQL, targeting a fall 2023 release.
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## Technical Skills

- **Highly Skilled:** Linux operating system family; Unix systems administration
- **Skilled:** Python and Java languages; Git version control tool; Docker containerization software; Microsoft Excel spreadsheet software
- **Proficient:** Bash, JavaScript, SQL, and TypeScript languages; Django web framework; Amazon Web Services cloud platform; Ansible automation tool