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.

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*

- **Thomas Jefferson High School for Science and Technology** — **Alexandria, VA**
  Advanced Studies Diploma — *8/2018 – 6/2022*
  - *GPA:* 4.435/4.000
  - *Activities and societies:* Science Olympiad, HackTJ, Marching Band, Latin Honor Society

Awards and Certifications

- **Mid-Atlantic Collegiate Cyber Defense Competition National Finalist** — *4/2023*
  - Specialized in Linux systems 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.
- **Amazon Web Services Certified Cloud Practitioner** — *1/2023*

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.

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