

# Shreyas Mayya

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## Experience

- **Thomas Jefferson High School for Science and Technology** **Alexandria, VA**  
*Lead Student Systems Administrator* 6/2021 – 6/2022  
*Student Systems Administrator* 5/2019 – 6/2021
    - 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, investigated mail system attack vectors, and reorganized TJHSST's DNS configuration to restrict external resolution of internal systems (approximately 75% of the lab) in collaboration with school and district IT professionals, effectively improving security across the lab.
    - Led a technology refresh of the lab by procuring and configuring new servers, power supplies, and batteries, greatly improving lab reliability.
    - Mentored junior team members and demonstrated a willingness to develop innovative solutions and handle sensitive operations, resulting in a promotion to Lead Student Systems Administrator for the 2021-22 school year.
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## Education

- **University of Virginia** **Charlottesville, VA**  
*School of Engineering and Applied Sciences, B.S. Computer Science* 8/2022 – Present
    - GPA: 4.00/4.00
    - *Relevant coursework:* Data Structures and Algorithms 1; Software Development Essentials; Computer Systems and Organization 1
    - *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
    - *Relevant coursework:* Foundations of Computer Science; Data Structures; Artificial Intelligence 1; Artificial Intelligence 2
    - *Activities and societies:* Science Olympiad, HackTJ, Marching Band, Latin Honor Society
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## Projects

- **Iago: An Othello Player** 9/2022 – Present
    - Built an Othello (or Reversi) player using Java and Gradle. Users can play games of Othello against each other or the computer via a terminal user interface, with work on a graphical user interface underway.
    - Implemented two-player adversarial algorithms and multithreading to provide AI Othello opponents of varying strengths.
  - **Unix Shell** 8/2021 – 5/2022
    - Designed and programmed a basic command-line shell for Unix systems using the Rust language.
    - Wrote technical report on project and presented at TJHSST's annual research symposium.
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## Technical Skills

- **Highly Skilled:** Linux operating systems and Unix systems administration; networking systems including Domain Name System (DNS) and Dynamic Host Configuration Protocol (DHCP)
- **Skilled:** Python and Java languages; Git version control tool; Ansible automation tool; Docker containerization software; Microsoft Excel spreadsheet software
- **Proficient:** Bash, C++, Ruby, and Rust languages; Django and Ruby on Rails web frameworks; Gradle build tool; SQL query language; Java unit testing with JUnit5 and Mockito testing suites