

Emily Liu

vyj9jn@virginia.edu

(703) 870-4466

<https://emilybliu.github.io/>

Work Experience

- **Systems Engineering Intern** **Vienna, VA**
Leidos Partnership for Defense - Defense Healthcare Management System Modernization (DHMSM) *Jun. 2022 - Aug. 2022,*
Jun. 2023 - Present
Worked on a team to create a database housing network connection information and automate testing. Used tools such as Microsoft Access, Microsoft Excel, and Monday.com.
- **Teaching Assistant** **Charlottesville, VA**
University of Virginia *Feb. 2022 - Present*
Assisted students in understanding Intro to Programming concepts (CS 1110) through Python during weekly office hours and labs.
- **Research Assistant** **Charlottesville, VA**
University of Virginia *Jan. 2023 - Present*
Conducting research in the TuneScope Laboratory with the Department of Music, the Department of Computer Science, and the School of Education at the University of Virginia. Credited as Technical Editor in the TuneScope book.
- **Grader** **Charlottesville, VA**
University of Virginia *Aug. 2022 - Dec. 2022*
Graded weekly homework assignments on Gradescope for Elementary Linear Algebra (MATH 3351). Left detailed feedback for students.

Skills

- **Programming Language:** Python, Java, C/C++, JavaScript, HTML, CSS, SQL, x86-64 Assembly
- **Frameworks & Libraries:** NumPy, Hibernate ORM
- **Tools:** Visual Studio Code, Vim, Git, Eclipse, PyCharm, IntelliJ, Jupyter Notebook, Heroku, Microsoft Office, Microsoft Excel, Microsoft Access, Photoshop, GIMP, Reaper

Education

- **University of Virginia** **Charlottesville, VA**
Echols Scholar, Miller Arts Scholar, B.A. Computer Science, B.A. Studio Art, *Aug. 2021 - May 2025*
GPA: 3.985
- **Briar Woods High School** **Ashburn, VA**
Valedictorian, Advanced Studies Diploma, GPA: 4.82 *Aug. 2017 - Jun. 202*
- **Relevant Coursework:** *Advanced Software Development, Software Development Essentials 1, Software Testing, Data Structures and Algorithms 1 & 2, Computer Systems and Organization 1 & 2, Discrete Math and Theory 1, Introduction to Programming, Intro Data Science with Python, Elementary Linear Algebra, Introduction to New Media 1 & 2*