

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

Worked on a team to create a data housing network connection information. Used tools such as Microsoft Access, Microsoft Excel, and Monday.com.

- **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. Debugs and maintains JavaScript code.

- **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.

- **Teaching Assistant**

Charlottesville, VA

University of Virginia

Feb. 2022 - Dec 2022

Assisted students in understanding Intro to Programming concepts (CS 1110) through Python during weekly office hours and labs.

Skills

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

Education

- **University of Virginia**

Charlottesville, VA

Echols Scholar, B.A. Computer Science, B.A. Studio Art, GPA: 4.00

Aug. 2021 - May 2025

- **Briar Woods High School**

Ashburn, VA

Valedictorian, Advanced Studies Diploma, GPA: 4.82

Aug. 2017 - Jun. 202

- **Relevant Coursework:** *Software Development Essentials 1, Discrete Math and Theory 1, Data Structures and Algorithms 1, Computer Systems and Organization 1, Introduction to Programming, Intro Data Science with Python, Elementary Linear Algebra, Introduction to New Media 1*