

Emily Liu

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

Work Experience

- **Systems Engineering Intern**

Leidos Partnership for Defense - Defense Healthcare Management System Modernization (DHMSM)

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.

Vienna, VA

Jun. 2022 - Aug. 2022,

Jun. 2023 - Present

- **Teaching Assistant for CS 1110**

University of Virginia

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

Charlottesville, VA

Feb. 2022 - Present

- **Research Assistant for Make to Learn Lab**

University of Virginia

Conducting research for the TuneScope digital learning tool 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.

Charlottesville, VA

Jan. 2023 - Present

- **Grader for MATH 3351**

University of Virginia

Graded weekly homework assignments on Gradescope for Elementary Linear Algebra (MATH 3351). Left detailed feedback for students.

Charlottesville, VA

Aug. 2022 - Dec. 2022

Skills

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

Education

- **University of Virginia**

Echols Scholar, Miller Arts Scholar, B.A. Computer Science, B.A. Studio Art, GPA: 3.985

Charlottesville, VA

Aug. 2021 - May 2025

- **Briar Woods High School**

Valedictorian, Advanced Studies Diploma, GPA: 4.82

Ashburn, VA

Aug. 2017 - Jun. 2021

- **Relevant Coursework:** *Advanced Software Development, Software Development Essentials, Software Testing, Data Structures and Algorithms, Computer Architecture and Operating Systems, Discrete Math, Programming, Intro Data Science with Python, Linear Algebra*