Emily Liu

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https://emilybliu.github.io/

Work Experience

- **Systems Engineering Intern**   **Vienna, VA**
  Leidos - Defense Healthcare Management Systems Modernization   *Jun. 2022 - Aug. 2022,*
  Created Access databases housing network connection information and   *Jun. 2023 - Aug. 2023*
  incident ticket information to support the Defect Management Team. Created   *Dec. 2023 - Jan. 2024*
  internal tracking and escalation tools on Monday.com. Developed a Python
  program with the pyodbc module to automate the database importing process.

- **Teaching Assistant for CS 1110**   **Charlottesville, VA**
  University of Virginia   *Feb. 2022 - Present*
  Assists students in understanding Intro to Programming concepts (CS 1110)
  through Python during weekly office hours and labs.

- **Research Assistant for Make to Learn Lab**   **Charlottesville, VA**
  University of Virginia   *Jan. 2023 - May 2023*
  Conducted computing education research for the TuneScope digital learning
  tool. Credited as Technical Editor in the TuneScope textbook. Debugged and
  tested code blocks written in Javascript

Skills

- **Programming Language:** Python, Java, C/C++, JavaScript, HTML, CSS, SQL, x86-64 Assembly
- **Frameworks & Libraries:** NumPy, Hibernate ORM, Django, JUnit, Selenium, Pandas, Bootstrap
- **Tools:** Visual Studio Code, Vim, Git, Eclipse, PyCharm, IntelliJ, Jupyter Notebook, Heroku, Microsoft Office
- **Operating Systems:** Linux/Unix, Windows

Education

- **University of Virginia**   **Charlottesville, VA**
  Echols & Miller Arts Scholar, B.A. Computer Science & Studio Art, GPA: 3.988   *Aug. 2021 - May 2025*

- **Briar Woods High School**   **Ashburn, VA**
  Valedictorian, Advanced Studies Diploma, GPA: 4.82   *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, Intro Data Science with Python, Linear Algebra*

Projects

- **RoomFinder Web Application**   **Charlottesville, VA**
  Advanced Software Development - University of Virginia   *Sept. 2023 - Dec. 2023*

  Worked with a team to develop a room booking application for University of Virginia buildings using MVC design, Django, Google Maps API, Google OAuth API, Bootstrap, and Javascript. Hosted on Heroku with PostgreSQL database.