Jerry Liu

jyl3xf@virginia.edu
www.linkedin.com/in/jerry-liu-38080816b
https://jerry-liu.herokuapp.com/

Work Experience

- **Software Development Engineering Intern**   **Dallas, TX**
  Amazon   *Jan. 2022 – Apr. 2022*
  Worked on the DLS Team in the People eXperience and Technology organization at Amazon to develop a full stack content management system. Used a Typescript React.js frontend and a Java AWS Fargate backend.

- **Software Engineering Intern**   **Bethesda, MD**
  Leidos   *May 2021 – Aug. 2021*
  Worked on the All-World Environment Simulation (AWESIM) project, a high-fidelity physics-based simulation of the generation and propagation of acoustic signals in the ocean for sonar trainers in the U.S. Navy. Developed, debugged, and tested code in C++, Python, and Typescript. Used a Jira Kanban Board, the Conan C++ package manager, React.js, and RESTful web services.

- **Teaching Assistant for CS 3330**   **Charlottesville, VA**
  University of Virginia   *Feb. 2021 – Dec. 2021*
  Assisting students with understanding computer architecture concepts and the x86 assembly language. Hosting weekly office hours, cohosting lab sections, and answering questions on Piazza.

- **Undergraduate Researcher**   **Charlottesville, VA**
  University of Virginia   *Jun. 2020 – Sep. 2020*
  Analyzed different combinations of data poisoning and PGDAttack in adversarial training of a linear SVM to investigate if the two adversarial methods amplify or hinder each other.

Skills

- **Programming Languages:** Python, Java, C++, C, JavaScript, HTML, CSS, SQL, C#, Bash, MATLAB
- **Libraries:** React.js, NumPy, Matplotlib, Scikit Learn, TensorFlow, Keras, PyTorch, OpenCV, Pandas
- **Tools:** Visual Studio Code, Eclipse, Vim, JUnit Testing, GitHub, VirtualBox, Conan, Docker, Kubernetes, Jenkins, Jira, Django, Heroku, Jupyter Notebook, Wireshark
- **Operating Systems:** Linux, Windows

Education

- **University of Virginia**   **Charlottesville, VA**
  B.S. Computer Science, GPA: 3.99/4.00   *Aug. 2019 – Dec. 2022*
- **Thomas Jefferson High School for Science and Technology**   **Alexandria, VA**
  Advanced Studies Diploma, GPA: 4.53   *Sep. 2015 – Jun. 2019*
- **Relevant Coursework:** Operating Systems, Algorithms, Data Structures, Databases, Computer Networks, Computer Architecture, Machine Learning, Artificial Intelligence, Computer Vision, Discrete Math, Linear Algebra, Probability, Statistics