

Joylyn Wang

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EDUCATION

Virginia Tech

Expected Graduation: May 2027

- College of Engineering: B.S., Computer Science
- GPA: 3.96/4.00
- Relevant coursework: Machine Learning, Data Analytics and Visualization, Human-Computer Interaction, Software Design and Data Structures, Cloud Software Development

SKILLS

Languages: Java, Python, C, R, MATLAB, SQL, HTML, CSS, JavaScript

Tools: Pandas, NumPy, scikit-learn, PyTorch, Matplotlib, Jupyter, Docker, Linux, Figma

EXPERIENCES

Researcher @ Echo Lab

January 2025 – Present

- Helping to develop and improve UI/UX for TaleMate, an AI-powered reading platform, enhancing parent-child engagement by designing, troubleshooting, and refining conversational AI using React.js, APIs, and AI-driven interactions.
- Presented [research](#) at Dennis Dean Undergraduate Research Conference and VTURCS Symposium

TechGirls Teaching Assistant

June 2025 – July 2025

- Assist high school girls with debugging code for final projects and in-class assignments
- Answer questions regarding JavaScript, HTML, and CSS
- Review previous lecture materials

Science Olympiad @ VT

Executive Officer – Treasurer

May 2024 – Present

- Manage money and control budget to ensure the club has sufficient funding to run competitions
- Set up fundraisers to raise money for competitions

Volunteer Committee Officer

September 2023 – May 2024

- Wrote event tests for Virginia Tech Invitational and event supervised at an invitational, regional, and state level.
- Helped recruit and organize 100+ volunteers for the Science Olympiad competition.

PERSONAL PROJECTS

Spotify Playlist Maker

- Improved the process of making a new playlist by using Spotify API
- Provides recommendations on what songs to add by showing top ten most listened songs in a period.
- Visualizes the rating's of each song on danceability, energy, and valence using streamlit

Analyzing Sentiment of Twitter Posts

- Analyzing and visualizing the volume and sentiment of posts on Twitter/X to see if it's a reliable indicator for predicting stock market movements
- Uses pandas, matplotlib, and yfinance

Natural Language Processing: Name Classification

- Uses PyTorch to create a recurrent neural network to classify some names as Spanish or English with 88% accuracy
- Outputs a confusion matrix and loss graph

Computer Vision: Automobile vs. Airplane

- Uses PyTorch to create a convolutional neural network to classify images from the CIFAR-10 dataset as an airplane or an automobile

Discord Bot

- Automates daily moderation tasks to reduce bandwidth using discord.py

AWARDS

IBM Data Analysis with Python

August 2024

- Utilized pandas to visualize and summarize data
- Developed data pipelines and construct machine learning models for regression