Jimin Lee
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Education

Washington University in St. Louis, St. Louis, MO (September 2022 - May 2026)
Bachelor of Science in **Data Science** | Minor in Music

Experiences

Teaching Assistant for CSE314A | Engineering Undergraduate Student Services Tutor
(August 2023 -)
· Support ~30 students in mastering course concepts through hands-on projects, data analysis, and troubleshooting challenges related to ETL pipelines, SQL databases, and data visualization
· Conduct individual and group tutoring weekly for *Matrix Algebra* and *Introduction to Data Science*, covering data preprocessing and machine learning models

Student Researcher at Mcdonnell Genome Institute
(December 2023 -)
· Create 3D biological simulations of stem cell colonies using Blender and train 50+ YOLOv8 object segmentation model
· Tuned model parameters, compared stochastic and batch gradient descent, and leveraged GPU acceleration to enhance processing speed and optimize performance for 4x scaled microscopic images

Cadence for Care
Program Leader (December 2023 -)
· Organize weekly music performances at Siteman Cancer Center, leveraging leadership and community service training to foster a supportive environment through the therapeutic power of music

WashU Residential Advisor
(August 2024 -)
· Cultivate community among ~70 residents by organizing monthly events, conducting individual check-ins, supporting diversity, inclusion, and healthy excellence, enforcing safety policies, and maintaining communication with staff on student needs and internal operations

Projects

Portfolio Website
· Developed an interactive static portfolio website using HTML, CSS, JavaScript, and Bootstrap to showcase my background, resume, projects, and blog, ensuring a modern, responsive design hosted on GitHub Pages

Stroke Prediction Project
· Created a confusion matrix plot from a logistic regression model, generated a 2-D PCA visualization, and produced a scatterplot of the two most important features from the first principal component

Analysis of Uber and Lyft Rides in Boston
· Conducted exploratory data analysis (EDA) on a dataset of Lyft and Uber rides in Boston to uncover patterns affecting ride prices, utilizing Numpy, Matplotlib, Seaborn, and Scip

Skills

Technical Skills: Python, JavaScript (D3.js), HTML/CSS/Bootstrap, Flask, Git, SQL, PyTorch, Docker

Soft Skills: Problem-solving, communication, organization, leadership, execution, empathy