Mingjian(Norman) Li

New York | limjiannn@gmail.com | 650-313-9688 | LinkedIn | GitHub | Personal Website

Education

New York University Jan 2024 – May 2026

- B.S. in Computer Science; Minor in Mathematics **GPA:** 3.98/4.0
- **Coursework:** Machine Learning, Operating System, Honors Numerical Analysis, Database, Probability and Statistics, Linear Algebra, ODE, Computer Architecture, Design and Analysis of Algorithm, Data Structure

Shanghai University of Finance and Economics Sep 2022 – Dec 2023

- B.A. in Accounting; Minor in Statistics **GPA:** 3.73/4.0

Experience

Software Engineer Intern, SeeM(useums)– Pittsburgh Dec 2024 – May 2025

- Developed a front-end application using React, Next.js, and Redux, featuring authentication, project management, and integration with an AI agent, deployed on AWS for scalable infrastructure.
- Contributed to back-end development by designing data schemas and setting up environments using Docker with Flask in Python, ensuring efficient, scalable, and consistent deployment.
- Implemented a 3D reconstruction pipeline based on 3D Gaussian splatting and SuGaR framework, supporting multiple data formats and enabling interactive front-end visualization with Three.js.

Research

Undergrad Research Assistant, NYU Video Lab (Advisor: Prof. Yao Wang) May 2025 – Present

- Ongoing output: a benchmark dataset with multiview, multiframe human dancer sequences, including building a full pipeline for raw data processing, 3D Gaussian construction, mesh reconstruction, and parameter tuning.
- Replicating and comparing multiple 3D Gaussian methods (Dynamic Gaussian, 4DGS, Gaussian Surfel, 2DGS, SUGAR, etc.) on the dataset, achieving high-quality visual outputs (PSNR $>$ 35).
- Evaluating mesh reconstruction techniques such as SDF, Poisson reconstruction, Marching Cubes, and tetrahedralization to improve geometric consistency.
- Benchmarking human body models including SMPL, supported by OpenPose keypoint detection, to assess accuracy and robustness for pose estimation tasks.

Projects

Kaggle: Jane Street Real-Time Market Data Forecasting Oct 2024 - Dec 2024

- Conduct data-cleaning, pre-processing, unsupervised learning including clustering and PCA, and visualizations.
- Implement multiple feature transformations and applied regularizations for better performance.
- Fit different models, including SVM, CNNs, RNNs, LSTM and ARIMA with multiple sampling methods.

Portfolio Management and Analysis App with AI Oct 2024 - Dec 2024

- Tools Used:Bert, Transformer, OpenAI API, React, ExpressJS, MongoDB, NodeJS, Redux,
- Developed a portfolio management app with a visualization dashboard for tracking holdings and market trends, integrated Large Language Models and News API for sentiment analysis, delivering tailored financial advice.

Full-stack Web App with AI Chat Box: EcoPantry | Github Link June 2024

- Tools Used: JavaScript, React, ExpressJS, MongoDB, NodeJS, Azure API, Redux, Sass
- Developed a food management app with user-authentication, multiple pages and sidebar navigator featured with an AI chat box to analyze food and user health data and give management, health and recipe suggestions
- Implement a Dashboard to summarize food storage information with a searching tool and a updated list.
- Collect data and store hashed user information and formatted food information on a MongoDB database.

Skills

Tech: Python, C++, R, MATLAB, Full-stack Development (JavaScript, React.js, Node.js, MongoDB), Excel, SQL

Analysis: Machine Learning, Math Modeling, Accounting principles, Economic and Financial Concepts