

Yale Fang

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WORK EXPERIENCE

Icahn School of Medicine at Mount Sinai

June 2024 – Present

Volunteer

New York, NY

- Deployed a deep learning pipeline to a High Performance Computing (HPC) platform via Docker
- Enhanced the pipeline's scalability to maintain performance across larger datasets, halving the runtime in such datasets
- Leveraged Python and TensorFlow to update and optimize the pipeline

Columbia University Irving Medical Center

Sept. 2021 – Sept. 2022

Intern

New York, NY

- Developed deep learning models to study CRISPR gene expression and predict gRNA efficiency on target sequences
- Cleaned and processed large datasets to ensure high quality data for future analysis and modeling
- Utilized Python and TensorFlow to implement and evaluate the deep learning models

PROJECTS

RUEmpty

Aug. 2023 – Oct. 2023

Personal Project

- A web application enabling Rutgers University students to locate available classrooms for studying and explore interesting classes by specifying time and location
- Built using Python, Django, JavaScript, and SQLite, harnessing these technologies for a robust and interactive user experience

Pairs Trading Project

Aug. 2021 – Jun. 2022

Internship Project

- Developed a web app for backtesting and pairs trading stocks and cryptocurrency
- Created utilizing Python and Flask, and SQLite, ensuring a seamless and efficient user experience

EDUCATION

Rutgers University–New Brunswick

Sept. 2022 – Dec. 2024

School of Arts and Sciences, BS, Computer Science

New Brunswick, NJ

- **GPA:** 3.97 /4.0, **Honors:** Phi Beta Kappa
- **Relevant coursework:** Introduction to Artificial Intelligence, Introduction to Deep Learning, Operating Systems Design, Machine Learning Principles, Principles of Information & Data Management, Harvard CS50/CS50W

TECHNICAL SKILLS

- **Programming Languages:** Python, C/C++, Java, Javascript, SQL (MySQL, SQLite)
- **Frameworks/Libraries:** Flask, NodeJS, Bootstrap, Pandas, NumPy, TensorFlow, PyTorch
- **Tools:** Linux, Bash, Docker/Singularity, MongoDB, Photoshop, PPT presentations
- **Soft Skills:** Agile, Detail-oriented, Teamworking, Problem Solving, Communication
- **Languages:** English (Native), Chinese (Proficient), Spanish (Limited Proficiency)