

Yale Fang

yalfan.github.io ❖ linkedin.com/in/yalfan ❖ yfang578@gmail.com ❖ (201) 691-4678

OBJECTIVE

Highly motivated computer science graduate with a passion for software development, hands-on project experience, and a strong academic foundation. Looking for a role where I can apply my skills to create innovative solutions and contribute to meaningful projects.

EXPERIENCE

Icahn School of Medicine at Mount Sinai, New York, NY


Jun. 2024 – Dec. 2024

- Deployed a deep learning pipeline to a High Performance Computing (HPC) platform via Docker
- Researched cloud platforms (AWS, Azure) but selected internal cloud for computational power and cost efficiency
- Leveraged Python and TensorFlow to update and optimize the pipeline

Columbia University Irving Medical Center, New York, NY

Sept. 2021 – Sept. 2022


- 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

RUEmpty 

Aug. 2023 – Oct. 2023

Project

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

Pairs Trading Project 

Aug. 2021 – Jun. 2022

Project

- Developed a web app for backtesting and pairs trading stocks and cryptocurrency
- Created utilizing Python and Flask, Auth0, and MongoDB, ensuring a seamless, efficient, and secure user experience

EDUCATION

Rutgers University–New Brunswick

Sept. 2022 – May 2025

School of Arts and Sciences, BA, Computer Science + Mathematics

New Brunswick, NJ

- **GPA:** 3.98 /4.0 | **Honors:** Phi Beta Kappa
- **Relevant coursework:** Introduction to Artificial Intelligence, Introduction to Deep Learning, Operating Systems Design, Systems Programming, Principles of Information & Data Management, Computational Finance, Harvard CS50/CS50W

TECHNICAL SKILLS

- **Programming Languages:** Python, C/C++, Java, Javascript, SQL (MySQL, SQLite)
- **Frameworks/Libraries:** Flask, Django, Node.js, Next.js, Bootstrap, Pandas, NumPy, PyTorch, TensorFlow
- **Tools:** Linux, Bash, Docker/DockerHub, Singularity, MongoDB, Photoshop, PPT presentations
- **Problem Solving Skills:** Agile Methodology, Detail-oriented, Communication, Collaboration, Time Management
- **Languages:** English (Native), Chinese (Proficient), Spanish (Medium Proficiency)