

Jack Jiang

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EDUCATION

New York University, *College of Arts and Science* - GPA: 4.0/4.0

September 2024 - Present

- CAS Presidential Honors Scholars Program - exclusive program focused on building research skills

Stuyvesant High School - GPA: 95.9

September 2020 - June 2024

1st Place at Princeton University's AAASE Academy Research Competition

Summer 2023

- Researched the use of a Convolutional Neural Network for earlier detection of Alzheimer's

TECHNICAL SKILLS

Computer Science Languages, Frameworks, and Libraries: Java (Advanced), Python (Advanced), C (Intermediate), HTML/CSS, JavaScript, React

Relevant Coursework: Computer Organization (C), Data Structures (Java), AP Computer Science (Java), Systems Level Programming (C), Linear Algebra

PROFESSIONAL EXPERIENCE

NYU Research Assistant- Meta AI

December 2024 - Present

- Collaborating with Meta AI to optimize large-scale machine learning models, focusing on efficiency improvements (e.g., quantization, pruning, or distributed training).

Up and Up Education - Software Developer

Fall 2023 - Summer 2024

- Collaborated with a select small group of developers to program Up and Up's website for students and teachers
- Launched online classrooms complete with mock SHSAT/SAT tests secured safely in an online database
- Used Firestore Database to store student data and ReactJS for the frontend and Javascript to retrieve data

PROJECTS

Multilayer Perceptron | *Python, PyTorch, TorchVision*

January 2025

- Developed and trained a Multilayer Perceptron (MLP) using PyTorch for handwritten digit classification on the MNIST dataset.
- Optimized model accuracy through data preprocessing, hyperparameter tuning, and performance evaluation.
- Implemented and analyzed neural network architectures, gaining insights into model decision-making and feature learning.

Real-Time Chat Application | *WebSockets, Node.js, React, Redis, PostgreSQL*

- Developed a scalable, real-time chat application supporting multiple users and group chats using WebSockets for real-time communication.
- Utilized Redis for message queuing and caching to ensure low latency and high availability. Stored user data and chat history in PostgreSQL, optimizing queries for efficient data retrieval.
- Deployed the application using Docker and Kubernetes for containerization and orchestration, enabling scalability and fault tolerance.

Job-Seeking Website | *Python, Django, Pillow, CareerJet API*,

EXTRACURRICULARS/VOLUNTEER EXPERIENCE

CS4All - Founder

Fall 2022 - Spring 2024

- Founded CS4All, a non-profit dedicated to teaching Python and Java to 200+ beginners ranging from elementary to high schoolers online and in-person
- Headed marketing, trained teachers and developed a curriculum to expand outreach and enhance class quality