

# Jingyu (Joy) Wang

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[LinkedIn](#)

[Github](#)

[Portfolio](#)

## EDUCATIONS

**Baruch College** | M.S., Information System

Expected Dec 2024

**New York University** | M.S., Computer Engineering | GPA: 3.63

May 2023

Relevant Coursework: *Computing System Architecture, Machine Learning, High-Speed Network, Data Center and Cloud Computing*

**Nanjing University of Posts and Telecommunications ("NJUPT")** | B.S., Information Security | GPA: 3.59

June 2021

Relevant Coursework: *Data Structure and Algorithm, Operating System, Object-Oriented Programming, Web Development*

## TECHNICAL SKILLS

Java, C++/C, Python, HTML, CSS, JavaScript, PHP, Swift, Git, Servlets, Spring, MySQL, SQLite, Bootstrap, JQuery, OpenCV, Numpy, Pandas, TensorFlow, Docker, Wireshark, NS-3 Network Simulator, AWS, AndroidStudio, Distributed System, Windows, Linux

## EXPERIENCE

**VisionX LLC** | San Jose, CA | Intern, Software Engineer

July 2023 - Present

- Developed a missing detection system utilizing **Python**, **OpenCV** and **segmentation models** to effectively identify and detect missing items on the shelves, assisting the robot's restocking operations.
- Optimized the system using **AI** and **computer vision** technologies, especially **YOLO**. Increased its accuracy by 30%.
- Assisted to develop, evaluate and use the latest machine vision, DL/ML technologies for AI applications.

**NYU High-Speed Networking Lab** | Brooklyn, NY | Student Researcher

April 2022 - Dec 2022

- Redesigned a congestion control scheme based on Priority-Based Flow Control (PFC), which can **solve the deadlock problem** caused by burst flow in PFC.
- Implemented a switch model that provides in-switch transmission and **virtual queues(VOQ/VIQ)** simulation by **C++** in **NS-3 Network Simulator** which could not support this function before.
- Debugged a bug which haunted others for weeks to make a program able to be ported to other machines.
- Collaborated with a team of six, applying perfect communication and tasks division to **halve the time it needed**.

## PROJECTS

**Collection of Poker games** | Java, Swing, SQLite, AWS

Fall 2022

*A game allowing players to choose different kinds of poker games with standalone and online playing modes.*

[github](#)

- Built **network communication** between clients and a server, making it possible for players using different servers to play games with each other at the same time in online mode.
- Developed a **login and registration system** with a database using **SQLite** where can also record players' points.
- Implemented **multi-thread** in games to allow users playing with computers when they choose standalone mode.
- Designed games with perfect **code reusability**, object-oriented programming ("**OOP**") and functional User Interface.
- Collaborated with a team of 3, applying best **git** workflow practices to minimize potential merge conflicts.

**NJUPT Spider** | Python, HTML, CSS, SQLite

Spring 2021

*A full-stack, single-page web crawler which can scrape all the URLs a domain contains and store them on the server.*

[github](#)

- Built a webpage which can get domains from users' input, show crawler results and **interact with the backend**.
- Developed a backend web crawler program, which can **invoke the frontend webpage**, in Python.
- Implemented **b/s architecture**, used **database** to **avoid duplication** and store the crawler results as log files.

**Student Association Website Home Page** | HTML, CSS, JavaScript, bootstrap, jQuery

Fall 2018

*Elegant home page built for NJUPT-SAST's website, introducing this student association in a gorgeous way.*

[demo](#) | [github](#)

- Built **interactive web pages** for the association by **JavaScript** and **Bootstrap**, highly improved user experience.
- Implemented **adaptive design** to the web page to make the website perform well on different kinds of devices such as mobiles, tablets and computer monitors.
- Achieved various web page effects such as carousel, image scrolling by using **multiple front-end languages**.

## COMMUNITY & LEADERSHIP

**Peer Education Department, Red Cross Society of NJUPT Students' Branch** | China

Sept 2018 - Aug 2019

*Department Leader*

- Led a 20+ members team, organized 10+ outdoor activities and 50+ presentations which totally served 1000+ visits.
- Operated a WeChat public account and posted articles about peer education with 200+ daily visits.