Jingyu (Joy) Wang

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EDUCATIONS

New York University | M.S., Computer Engineering | GPA: 3.63   Expected 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, Compiler Principle, Web Development

TECHNICAL SKILLS

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

EXPERIENCE

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**.

NJUPT Student Association for Science and Technology | Nanjing, China | Student Assistant   June 2018 - Dec 2018

- Built **interactive web pages** for the association by **JavaScript** and **Bootstrap**, highly improved user experience.
- Implemented **adaptive design** to the web page by using **@media** and some original algorithms to make the website perform well on different kinds of devices such as mobiles, tablets and computer monitors. (**demo**)
- Planned and designed courses for teaching freshmen students basic programming and coding knowledge.

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 the game 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 website which can scrape all the URLs a domain contains and send them to 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 **database** to **avoid duplication** and store the crawler results as log files.

Travel Blog Website | HTML, CSS, JavaScript, bootstrap, jQuery   Fall 2018
Elegant website which has various display methods to showcase travel blogs with pictures and text in a gorgeous way.   **live** | **github**

- Built a well-designed website for a web design contest and **won first place** in the contest.
- Implemented various kinds of web page effects such as **carousel**, **image scrolling** and web adaptive 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.