

# JUNMING QIU

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## EDUCATION

### New York University Tandon School of Engineering

*Bachelor of Science in Computer Science with a Minor in Finance*

Brooklyn, NY

May 2023

- **GPA:** 3.89 - Dean's List

## SKILLS

### Software Engineering:

- **Python:** Good experience with OpenCV, web sockets, Django, ROS, pandas, numpy, transformers, SKlearn
- **HTML & CSS:** Comprehensive experience creating and designing responsive web pages
- **JavaScript:** Comprehensive experience with creating business logic/database schema using ReactJS, NextJS, and NodeJS
- **SQL:** Experience with integrating SQLite and PostgreSQL for web servers
- **C++/C:** Practical experience with data processing for text search algorithms (PISA)

### Dev Ops:

- **Observability:** Metric collection, filtering, and representation using Prometheus and Grafana
- **Containerization:** Creating and managing containers using Docker, Kubernetes, and Openshift
- **Automation:** Knowledge of using Ansible and Terraform to automate provisioning and configuration of servers
- **Network Infrastructure:** Good understanding of network components and routing, as well as AWS

### Team Management:

- **Scrum:** Participating in as well as leading teams following the Scrum process
- **IT Support:** First response and team coordinator for issues with Dell hardware, Cisco, MS Office, Windows, and MacOS.

## EXPERIENCE

### TIAA

Charlotte, NC

#### Technology Intern (Global Infrastructure Services)

June 2022 - August 2022

- Contributed to the observability platform by standardizing metric collection, dashboards, and data sources. Completed refactoring project to standardize data sources and reduce memory load on Prometheus servers using regex filters.
- Involved with provisioning, deploying, and documenting a new application which serves clients. The Java application was configured and deployed using WebLogic. Process was repeated for various environments in the CI/CD pipeline.
- Created a web app using React which served as a game to promote youth retirement to compete in TIAA's Innovation Challenge Hackathon. Presented the project to a panel of judges along with a 3 minute pitch and video advertising the project.

### NYU

Brooklyn, New York

#### IT Support Technician

August 2020 - Present

- Worked closely with the NYU IT team to solve issues regarding university hardware and software.
- Supported faculty online through remote connection and on-campus.
- Managed software upgrades in the NYU system, compatibility issues, as well as setting up hardware on-campus.

## PROJECTS (<https://github.com/Junming-Qiu>)

### Startup Co-founder: Popup - NYU

June 2021 - Present

- Attended NYU start-up bootcamp for an app which helps money-conscious consumers find inexpensive and high quality food carts around them wherever they go and whenever they need. Launched on App Store and Google Play Store

### Webapp Development: Clique.io - NYU

May 2020 - Aug 2020

- Worked with a small team of passionate CS students to use Django to design and develop a startup recruitment website complete with user authentication, live chat, friends system, post system, and custom search engine.

### Research in Better Clustering for Search Engines with Dr. Torsten Suel - NYU

Jun 2021 - Aug 2021

- Developed and implemented a project to determine the effectiveness of several clustering methods to improve sharding for selective search.
- Used natural language processing (BERT) and SLURM on the NYU high performance cluster to process and transform documents with useful information for clustering.
- Implemented and modified algorithms such as k-means clustering and bipartite graph bisection to improve clustering

### Robotics Design Team - NYU

Sep 2019 - Present

- Worked with the robotics team's software subteam to develop and implement code to remotely communicate to a robot.
- Wrote and developed code to detect position of robot with high precision via Apriltags and computer vision.