Garland Qiu

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EDUCATION

CUNY City College of New York ***June 2021***
Degree: Bachelor of Science, Computer Science
Honors: *cum laude*

PROJECTS

U.S. Tech Layoffs Data Visualization ***March 2023***

- Built and published an interactive dashboard showing tech layoffs in the U.S. from the start of COVID-19 to March 2023.
- Identified key metrics to design statistical summaries and geographical visualization with **Tableau** from a public **Kaggle** dataset.
- Analyzed dataset and concluded findings accessible and intuitive for public view.

Crypto Slot Machine ***June 2021***

- Designed and developed alongside three other team members a cryptocurrency slot machine game using **Solidity**, **Web3JS**, **JavaScript**, **HTML**, and **CSS**.
- Designed and verified smart contracts in **Solidity** to ensure correct transactions within the slot machine game.
- Implemented hashing methods through the front-end to ensure secure transactions and fair gameplay throughout the session.

Film Database App (FLICKS By PIE) ***March 2021***

- Designed and developed a web application utilizing **Next.js**, **React**, and **JavaScript** that displays latest and upcoming movies and shows.
- Utilized data from TMDB (The Movie Database) to display cover arts, user ratings, and details on latest and upcoming movies and shows.

NYC StreetEasy Rent Prediction ***December 2019***

- Built prediction model for rent prices in NYC alongside two other team members using **Python**, along with **pandas**, **matplotlib**, **NumPy**, and **scikit-learn** libraries.
- Utilized 311 Service Requests, NYPD Complaints, and a StreetEasy dataset to improve rent predictions resulting in a median error of $196 from actual rent prices.

EXPERIENCE

NIA Community Services Network ***September 2016 – February 2020***
STEM Group Leader

- Instructed and assisted in teaching over 90 middle school students every day in STEM activities such as Scratch and Code.org.
- Ensured devices used in STEM activities were operational and troubleshot devices when necessary to continue activities.
- Recommended general and product suggestions for teachers to implement in future STEM activities.
- Served as an interpreter between administrators, teachers, students, and parents.

SKILLS

Programming Languages: Python, C/C++, JavaScript, Java, SQL
Applications: Git, Microsoft Excel, Tableau, Visual Studio, VirtualBox, Slack
Operating Systems: Windows, Linux, Macintosh, Android, iOS
Skills: Data Visualization, Data Analysis, Data Science Methodologies