Jingyi Qi

Washington DC

Tel:（202） 2155153; Email: jq138@georgetown.edu

Education

Georgetown University **DC Washington, US**

*Master of **Data Science and Analytics**, School of Arts and Sci.* *9/2021-present*

- **Related Courses:** Data Structures and Algorithms, Database Systems and SQL, Big Data and Cloud Computing, Natural Language Processing, Blockchain Technologies in DS

The Chinese University of Hong Kong, Shenzhen **Shenzhen, P. R. China**

*Bachelor **of Finance,** School of Management and Economics* *9/2017-6/2021*

Skill

- Languages: Python3, SQL, Java, JavaScript, HTML, CSS, R
- Tech Stack: React.js, Node.js, MongoDB, PostgreSQL, Hadoop, Spark
- Developer Tools: Linux, Git, Bash, Docker, Vim, Jupyter Notebook, Jetbrains, Amazon, AWS

Working Experience

Georgetown University **DC, Washington**

Research Assistant of Dr. Nakual Padalkar on Deploying PoL Consensus to Optimize Fuel Consumption *06/2022-09/2022*

- Wrote research reviews about integrating blockchain-related Proof-of-Location Scheme, Cooperative Authentication, and other Location Provenance Frameworks for VANETs to reduce fuel consumption, preparing for future research.
- Implemented Vehicular Adhoc Networks Simulation in **Python** using **Object Oriented Programming**.

China Financial Computerization Corporation **Beijing, China**

*Affiliated with the **People's Bank of China**, Part-time Assistant of Dr. Lily Jiang* *01/2020-05/2020*

- Assisted to track the status of major economies for cybersecurity, data protection, and financial technology development and crawled 5000 news from major news websites using **Beautiful Soup API** with Python.
- Processed news data and extracted major fintech words and country names utilizing **NLTK, Pandas,** and **Numpys**, analyzed relations between word frequency and major economies, and presented results to the senior analyst.

University of Chinese Academy of Sciences & Huatai Securities **Beijing, China**

*Project Assistant, **Joint Research Project*** *08/2019-12/2019*

- Took part in the 8-person team of the **Research and Analysis of Real Estate Investment and Data Model**
- Gathered 10 years of historical real estate A-stock data from CSMAR database, stored data in **PostgreSQL,** and queried specific stock data for further studies in the research team.
- Captured and monitored 100,000+ real-time real estate A-stock data from major stock websites utilizing **Requests**, and **Beautiful Soup API** with Python, cleaned and preprocessed data on **Hadoop,** providing the stock data for further model analysis.

Project

Travel Image Sharing Platform **07/2022-10/2022**

- Conducted **Javascript (React)** programming to create a Single Page Application for users to register, login, upload place images and addresses, and view other users' image history.
- Developed **Mongoose** schemas for users and travel images and stored information in **MongoDB** (installed using Docker).
- Applied **Express.js** and **Node.js** as the back-end web application framework, supporting CRUD actions for images and users.
- Dockerized and deployed the application on **AWS** EC2, HTTPS enabled with a CA-issued certificate.

Google Firebase & React.JS Based Online Food Order Application **04/2022-07/2022**

- Developed a Single Page Application with **React.js** in the front end for users to view the food menu and order foods.
- Designed reusable **React Hooks** and conducted **Typescript** programming to improve user experience.
- Implemented user registration and login system by building **JWT**-based authentication, enhancing the user information security while ordering.
- Created Google Firebase functions to handle client-side HTTP requests and store user ordering history in Google Cloud Firestore.

E-Commerce Web Application **01/2022-04/2022**

- Constructed an e-commerce web application, applied **Angular** in the front-end integrated with Bootstrap CSS web styles and Java **Spring Boot** in the back-end with a RESTful API and Maven support.
- Supported users to search products by category and keyword with the dynamic searching component, realized master-detail view of products, pagination support, and utilized **Stripe API** to complete payment processing function.
- Aided by **Okta SDK** as Authorization Server to realize user login/logout security with **OAth 2.0 API**.

Other Information

Member of Academic Department, International Student Association ***01/2019-08/2019***