

Nianmin (Mickey) Guo

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📍 Seattle, WA
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EDUCATION

Bachelor of Science in Computer Science/Cognitive Psychology

Khoury College of Computer Sciences, Northeastern University, Boston, MA

Sep 2014 - May 2019

GPA: 3.45

Awards and Activities:

Dean Scholarship by College of Science

Sep 2014 - May 2019

President of Japanese Culture Club

Sep 2017 - Nov 2018

Relevant Coursework:

Natural Language Processing, Networks and Distributed Systems, Human Computer Interaction, Software Development, Blockchain (Online), Object-Oriented Developing, Algorithms, Theory of Computation, Artificial Intelligence, Laboratory in Cognition, Seminar in Psycholinguistics

EXPERIENCE

Software Engineer

Plaid, Integrations

Dec 2019 - Present

New York, NY → WFH

- Developed, tested and maintained data integration framework to reliably collect financial data from over 10000 financial institutions in **Python** and **Typescript**
- Scoped and aligned prioritization from leadership and lead a data compliance project that impacted over 200k users
- Created tools to improve developer efficiency by 70% by containerizing the local dev environment of the Crawler team
- Collaborated with multiple stakeholders on planning, monitoring and operations to migrating MSSQL database to AWS RDS **Postgres**

Data Analyst / Software Development Engineer Intern

Massachusetts Bay Transportation Authority, Procurement and Logistics

Jul 2018 – Dec 2018, Aug 2019 - Nov 2019

Boston, MA

🔗/MBTA-Procurement-Analysts

- Lead a small development team to develop and maintain MBTA Procurement internal tool suite using **Angular**, **Node** and **mongodb** to automate business data collection and perform data processing, visualization and analysis
- Designed, developed, tested and maintained MBTA Procurement core online data scraping service using **Python** and **Selenium** framework
- Designed and developed offline data pipelines to process financial data and generate reports with **Python/Pandas**, **bash**, **mongodb**, **R** and **Tableau**
- Created infra to manage development environment and production servers with **bash** and **python** scripts
- Performed big data analysis for over 50k+ MBTA Purchase and Requisition orders to generate business metrics
- Aligned prioritization with executives and coordinated with multiple stakeholders to refine project scope

PROJECTS

Coinboard – Cryptocurrency Trading Dashboard in Terminal

- Implemented a client application in **Golang** with ability to view Cryptocurrency market prices and creating market orders with Coinbase Pro and Poloniex
- Created asynchronous fetch and post **microservices** as **goroutines** for viewing and interacting with cryptocurrency exchanges
- Designed Text-Based User Interface for terminal use across platforms

Jeopardy! – Mobile Game & Python Web Crawler

- Implemented MVC in **React Native** to build Jeopardy-style game with single player mode (against archived historical contestants) and real-time multiplayer modes using **Websockets** with **Firebase** as backend
- Utilized **Firebase** Realtime Database and Cloud Functions through both **javascript** and **python** to store and process user information, ongoing multiplayer sessions, and question data
- Deployed **heroku** dyno in **python** for scheduled question-crawler updates
- Collaborated in a small team and made architectural decisions such as database format and game logic

Transcriptoken – Ethereum Blockchain Token for Student Transcripts

- Implemented an **ERC721** contract in **Solidity** that stores non-fungible student transcripts on the **Ethereum** Blockchain
- Utilized **Openzeppelin Framework** with **Truffle Suite** for smart contract development
- Created a web-based front end with **web3.js** for students and institutions to request, create, view, and transfer the transcript token