Seaqueue Cheng

(425)615-2688 | Boston, MA 02119 | cheng.qian@northeastern.edu | My Website and Work
Availability: July – Dec. 2023

Computer Toolkit

Proficient:	Java | Python | React (HTML + CSS + JS/TS) | PostgreSQL | Sqlalchemy | Pandas | Plotly | Scikit-Learn
Familiar:	Racket | C | Lean | Assembly | C++
Software:	MacOS | GitHub & GitLab | IntelliJ | PyCharm | VS Code | Jupyter

Experiences

Quantitative Trading – Start up   Nov. 2022 – Present
- Currently working with a financial peer to create a Quant Trading program in Python.
- Analyzed and visualized overall industries and industries members' data such as PE and Total Capital with Plotly including Line, Heat, Box, Icicle, Pie charts, etc.
- Organized data with Pandas-DataFrame and CSV files (converting data to dictionary to trade for time).
- Predicted price trends using Machine Learning -- Regression, Classify, Clustering, and Time Series models.

Seminaut Inc, San Marcos, TX
Full Stack developer, CO-OP: Guild Gaming   July 2022 – Dec. 2022
- Displayed Event Cost, Pot Value and Badge System which involve taking user inputs, saving, and fetching data to and from the Sqlalchemy database through API calls.
- Added filtering on Events, Venues and Articles by Date, Cost, Pot, Distance, etc.
- Updated pagination to display the page number accordingly.
- Promoted to group leader of 9 teammates since Oct. 2022.
- Designed and implemented the interactive Post System that users can share texts and images with followers.
- Led the team to design and implemented the basic Bracket System for tournaments.

Projects

Pilot Analytics:	Solo Web Dev. Analyzing pilots career performance. Deployed frontend on Netlify and backend on Heroku. Pilot Analytics
Covey Town:	Set up PostgreSQL, implemented REST API calls, created profile and login system, created badges system that requires transfer information through socket and API calls, deployed frontend on Netlify and backend on Heroku. Covey Town
Computer and Network:	Built the Shell, Memory Allocator and Filesystem in C using sys-calls such as fork, execvp, sbrk and mmap; data structures such as linked list and bitmap. Built the Bridge, Router, TCP like Protocol, Web Crawler and Raft Consensus in Python. They transfer messages in JSON style in a contrived set-up.

Education

Northeastern University, Boston, MA   Sept. 2020 – May 2024 (expected)
Major in Computer Science at Khoury College

Coursework:	Object-Oriented Design | Cybersecurity of Computer Systems | Network and Distributed Systems Math Reasoning | Calculus 3 | Digital Design and Computer Organization

University of Massachusetts Boston, Boston, MA   Sept. 2018 – May 2020

Coursework:	Data Structures (Java) | Programming in Python & C | Linear Algebra | Calculus 1 & 2
Honors:	Merit Scholarship (Oct. 2019) | Dean's List (Jan. 2020)
Tutor:	Held 11 hours per week of one-on-one tutoring for two semesters (Calculus 1 & Data Structures - Java)

Interests

Kickboxing | Planking | Soccer | Basketball | Rubik's Cube