Seaqueue Cheng

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Availability: July – Dec. 2023

Computer Toolkit

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

Experiences

Seminaut Inc, San Marcos, TX

Full Stack developer: https://guildgaming.gg/   July 2022 – Dec. 2022
- Added the following full stack features to Guild Website:
  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.
  Filtering on Events, Venues and Articles by Date, Cost, Pot, Distance, etc. And pagination on displaying.
- 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.

University of Massachusetts Boston, Boston, MA

Tutor for Calculus 1 & Data Structures (Java)   Sept. 2019 – July 2020
- Held 10+ hours per week of one-on-one tutoring.

Projects

Pilot Analytics:	Solo Web Dev. Analyzing pilots career performance according to the KSAP model. Deployed frontend on Netlify and backend on Heroku. Link to PLM project
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. Link to Covey Town project
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.
Image Enhancement:	Created a GUI image processing application that allows users to load, process, and save images in Java. It follows MVC design pattern and supports CLI-instructions.

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: *Introduction to Computing (Python) | Data Structures (Java) | Programming in C | Calculus 1 & 2*
Honors: *Merit Scholarship (Oct. 2019) | Dean's List (Jan. 2020)*

Interests

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