

# Seaqueue Cheng

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Availability: July – Dec. 2023

## Computer Toolkit

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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

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### Seminaut Inc, San Marcos, TX

Full Stack developer: <https://guildgaming.gg/> 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

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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

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**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)*

Tutor: Held 11 hours per week of one-on-one tutoring for two semesters (Calculus 1 & Data Structures - Java)

## Interests

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