

# Catherine Quach

SOFTWARE DEVELOPER · FRONTEND DEVELOPER · BACKEND DEVELOPER

Boston, MA

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## Education

### Boston University

B.A. IN COMPUTER SCIENCE

Boston, MA

2019-2023

### Yonsei University

SUMMER STUDY ABROAD PROGRAM

Seoul, South Korea

2021

## Work Experience

### Accutech Machine, Inc.

WEB DEVELOPER INTERN

Danvers, MA

May 2023 - Present

- Designed an internal full stack web app using MongoDB, Express, React, and Node.js, providing a centralized platform for company's employees to access essential information and resources improving the flow of data between departments.
- Created a responsive front-end interface using React, enabling users to register, log-in, and to view and manage data that they have access to.
- Implemented security measures including JWT authentication and bcrypt password hashing, to protect sensitive company information and maintain data confidentiality.

### M.K. Services Inc.

SOFTWARE ENGINEER INTERN

Middleton, MA

Jun. 2019 - Aug. 2020

- Handled an ERP system to manage database of customers and supplier to effectively schedule the sequence of operations.
- Facilitated the administration of user access and privileges to applications/systems, ensuring that access requests are properly authorized, appropriately documented, and accurately fulfilled.
- Assisted in debugging and troubleshooting software issues to identify and resolve bugs and errors.

## Projects

### Custom Gamer Profile Web Application

LANGUAGES & LIBRARIES: HTML, CSS, MONGODB, EXPRESS.JS, NODE.JS, REACT

June 2023 - Present

- Designed a full stack user profile authentication web app catered towards users in the gaming community.
- Used React to create a visually appealing front-end interface, enabling the users to customize the look of their unique profile pages and edit and display their gaming data.

### C2 Framework

LANGUAGES & LIBRARIES: C++, WINDOWS API

Oct. 2022 - Dec. 2022

- Built a C2 framework in React that could store up to 10 different implants and it spoke directly to an implant on a victim machine.
- Designed an implant in C++ could make remote procedure calls, steal data from Chrome, execute commands on the terminal remotely, and encrypt data on the victim machine.
- Maintained proper documentation and reduced clutter in code by overwriting bad coding practices.

### Discord Bot

LANGUAGES: PYTHON

Jul. 2022 - Aug. 2022

- Developed a bot written in Python to automate an RPG with a database to store up to 100 different users' statistics, up-to-date currency, and class information.
- Integrated user commands to allow trading between users, inventory manipulation, and make user to enemy interactions.

## Technical Strengths

**Languages** | C, C++, Java, Python, MATLAB, HTML/CSS, Javascript, SQL

**Frameworks/Libraries** | Node.js, Express.js, React

**Developer Tools** | Git, Postman, MongoDB