

CATHERINE QUACH

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EDUCATION

Boston University, MA
B.A. in Computer Science

May 2023

JOB EXPERIENCE

M.K. Services

Software Engineer (Intern)

June 2019 - August 2020

Middleton, MA

- Handling ERP system to manage database of customers and supplier to effectively schedule the sequence of operations.
- Worked on a project to link data from ERP system to CRM system for the company.
- Assist in the administration of user access and privileges to applications/systems, ensuring that access requests are properly authorized, appropriately documented, and accurately fulfilled.
- Troubleshoot user access issues, including determining cause and implementing resolution.

PROJECTS

Profile Web Application — React, MongoDB, Node.js

June 2023 - Present

- Developed a user authentication portal using the MERN (MongoDB, Express.js, React, Node.js) tech stack
- Built a secure back-end in Node.js with Express.js to handle user authentication and profile customization, and stored the information in the MongoDB database
- Created a responsive front-end interface using React, enabling users to register, log in, and customize their profile pages
- Integrated advanced authentication features, including bcrypt password hashing and JWT authentication, to enhance security

Client's Website for Personal Business — HTML, CSS, Javascript

February 2023 - March 2023

- Designed and developed a visually appealing portfolio website using HTML, CSS, and JavaScript
- Collaborated with the artist to gather requirements, provide design recommendations, and deliver a website that effectively showcases their artwork

C2 Framework — C++

October 2022 - December 2022

- Built a C2 framework in C++ that could store up to 10 different implants and it spoke directly to an implant on a victim machine
- Implant could make remote procedure calls, steal data from Chrome, execute commands on the terminal remotely, and encrypt data on the victim machine

Discord Bot — Python

July 2022 - August 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

TECHNICAL STRENGTHS

Languages

C++, C, Python, Java, MATLAB, Javascript, HTML, CSS

Technologies/Tools

Docker, Git/Github, Postman, MySQL, MongoDB

Frameworks/Libraries

Node.js, Express.js, React