

Charles Quigley

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SUMMARY

Determined and hard working student at The University of Massachusetts Boston. Consistent and passionate Computer Science major with an interest in software development, cyber security, IoT and low-level programming. Fast, enthusiastic learner and programmer.

EDUCATION

University Of Massachusetts Boston - B.A., Computer Science

3.405 GPA

September 2022 - May 2026

COURSEWORK

Introduction to Software Engineering, Advanced Data Structures and Algorithms, Computer Architecture and Organization, Graphics, Introduction to OS, Introduction to System Administration, Introduction to Unix/Linux, Cybersecurity In The IoT

SKILLS

Tools/Techniques - Data Structures and Algorithms, Project Management, Object-Oriented Programming, git

Languages - Python, C, HTML, CSS, Javascript, Java, Bash, x86 Assembly

Frameworks - Threejs, XTK, SFML, SwiftUI, Flask

General - Linux/Unix, Google Suite, Vim, Github

Soft Skills - Teamwork, Problem-Solving, Communication, Open-minded

PROJECTS

Create | *Command line utility built in C*

- Quickly generate a main.c and Makefile to ensure working development environment for C projects
- Ensured fast creation and correct tab spacing within the Makefile
- Can be tailored to further work for a users needs

MusiTime | *Playlist generator built with Python and Spotify API* | *Project Lead*

- Create a playlist tailored to a specific genre or artist
- Generate a playlist of a user specified length in minutes
- Authenticates directly Spotify servers

Particulum | *Galaxy/Particle simulator built with threeJS*

- Allows users many variations of choice - elliptical, spiral, irregular
- Customization to the galaxies - speed, color, rotation
- Allows users to do expansion (explosion) and contraction (blackhole) of particles to create unique effects

Heart Rate Monitor | *Heart Rate Monitor built with C* | *Work in Progress* | *Project Lead*

- Information is recorded from the users and send to an app for easy data viewing
- Visualize the data through graphs and provide alerts if the data is irregular or unexpected

EXPERIENCE

ISO New England | Cybersecurity Student Intern

June 2025 - Present

- Utilize Splunk Machine Learning Toolkit to monitor for anomalous commands being run within ESXi environment
- Assist on creating Splunk SOAR playbooks to generate automatic Jira tickets regarding cyber events

Quirk Auto Dealers | *IT Support*

June 2024 - May 2025

- Monitor the health of our computer network, assessing and responding to vulnerabilities detected in our system
- Creating Powershell scripts to monitor crucial information regarding the computers inside of our network such as a last logon date or the automation of certain tasks such as checking into the domain.
- Assist in implementing new policies deployed by our team and ensuring each computer comes equipped with virus protection to prevent possible data breaches.

Quirk Auto Dealers | *Technology Team*

Aug 2020 - June 2024

- Ensured all the new vehicle technology worked as expected, testing and utilizing features inside of the vehicles that are essential for customers everyday usage