

Education

Boston College

B.S. in Computer Science,
summa cum laude
Aug 2018 – May 2022

Skills

Languages

C and C++
Go
TypeScript
Python
Dart
Rust
Java
Bash
HTML + CSS

Technologies

Cassandra
MongoDB
React + Redux
Flutter
Linux
Git

Honors and Awards

Neuhauser Award in Computer Science

Boston College
11 May 2022

Hackathons, First Place

Hack the Heights	14 Apr 2019
Codestellation	10 Nov 2019
Hack Haverhill	17 Nov 2018
BC Hacks	11 Nov 2018
Codestellation	4 Nov 2018

Experience

Microsoft Base OS Kernel
Software Engineering Intern

Redmond, WA

Jun 2021 – Aug 2021

- Developed multiple solutions to detect and track down sources of a difficult-to-debug but critical IO Manager memory leak, saving hundreds of developer hours every year.

Software Engineering Intern

Jun 2020 – Aug 2020

- Brought layering support, a feature highly desired by clients and other companies, to Windows Containers on Windows Desktop. This enables clients to create containers customized for their own purposes.
- Wrote a specification detailing the motivations behind and customer impact of the project.

Rocket Software Zowe App Platform
Software Engineering Intern

Waltham, MA

Jun 2019 – Dec 2019

- Built a new web interface for mainframes to filter and search for objects in a Db2 database, visualize and explore their hierarchical relationships, and define "Collections" of many objects.
- Designed and implemented a modular plugin system to add Microsoft Language Servers to a browser-based code editor for the mainframe.

BC GET Delivery *Student Run Startup*
Full Stack Developer

Chestnut Hill, MA

Oct 2018 – Feb 2019

- Developed an automated app-to-SMS messaging platform, to ease communication between deliverer and customer and improve customer privacy.
- Discovered and fixed critical security flaws.

Boston College

Chestnut Hill, MA

Teaching Assistant for Computer Vision

Aug 2021 – Dec 2021

Teaching Assistant for Computer Science II

Jan 2019 – May 2019

Projects

BC COVID-19 Dashboard

[bccovid.dav.sh](https://github.com/bccovid.dav.sh) [pantherman594/bc-covid](https://github.com/pantherman594/bc-covid)

Unofficial COVID-19 dashboard to visualize the COVID-19 testing at Boston College during the 2021-22 school year. It automatically scrapes BC's official dashboard to display it in a more informative and user-friendly manner. Built with React and Recharts on the frontend, with a TypeScript backend and MongoDB database.

In-Person Among Us

Flutter app that recreates the Among Us game in real life, allowing players to complete tasks, kill nearby crewmates, and report bodies in real time. Tasks are initiated by scanning a QR code at a specified location, which launches the task in the app. The "wires" task was also recreated in real life with an Arduino.

WikiWhere

[wikiwhere.ciliber.to](https://github.com/wikiwhere.ciliber.to) [wikiwhere/wikiwhere](https://github.com/wikiwhere/wikiwhere)

Visualization of Wikipedia articles and their links. Built with d3 and Express.js, with a bi-directional breadth first search algorithm in C++.

hackm.app

[hackmapp.dav.sh](https://github.com/hackmapp.dav.sh) [hackmapp/hackmapp](https://github.com/hackmapp/hackmapp)

Interactive map of the previous, current, and upcoming MLH hackathons. Built with d3, Express.js, and BeautifulSoup.