

Education

Boston College

B.S. in Computer Science

GPA: 3.92 Major GPA: 4.0

Dean's List First Honors.

Aug 2018 – May 2022 (exp.)

Skills

Languages

C and C++

TypeScript

Python

Rust

Java

Bash

HTML + CSS

Technologies

Linux

Git

Node.js

React + Redux

Deck.gl

Vue

Express

NGINX

MongoDB

MariaDB

PostgreSQL

Awards

Codestellation

Judge's Pick

Nov 10 2019

Best Web/Mobile Hack

Nov 4 2018

Hack the Heights

First Place

Apr 14 2019

Hack Haverhill

First Place

Nov 17 2018

BC Hacks

Grand Prize; Hacker's Choice

Nov 11 2018

Experience

Microsoft

Base OS Kernel

Software Engineering Intern

Redmond, WA **Remote**

Jun 2020 – Present

- Took ownership of a project bringing a feature highly desired by both internal Windows teams and external clients to Windows Containers, decreasing certain loading and setup scenarios from tens of minutes to seconds.
- 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.

Fellowship of Christian Clubs

Software Engineer

Remote

Jun 2019 – Present

- Developed, maintained, and hosted the backend and database.
- Designed and helped develop the web interface.

rSpace

Student Run Startup

Co-Founder and CTO

Atlanta, GA **Remote**

Oct 2018 – Present

- Planned, designed, and developed the entire backend and web frontend.
- Wrote up a comprehensive blueprint documenting the workings of the app, streamlining the development process.

Boston College

Teaching Assistant for Computer Science II

Chestnut Hill, MA

Jan 2019 – May 2019

- Wrote a script to automatically download students' problem sets, suggest grades, and upload grades and comments to the Canvas Learning Management System, saving the professor hours of time.
- Assisted students with problem sets and answered student questions.

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.

Projects

WikiWhere

<https://wikiwhere.org/> [wikiwhere/wikiwhere](https://github.com/wikiwhere/wikiwhere)

WikiWhere is a visualization of Wikipedia articles, and can be used to either traverse through linked articles or find the shortest path between two articles. The frontend uses d3 to visualize the graph, using data returned by the JavaScript and C++ backend. The backend queries Wikipedia data dumps and uses a bi-directional breadth first search to find the shortest path. I worked primarily on the backend and search algorithm.

hackm.app

<https://hackm.app/> [hackmapp/hackmapp](https://github.com/hackmapp/hackmapp)

hackm.app is an interactive map of the previous, current, and upcoming MLH hackathons. It scrapes the MLH website every hour using Python and BeautifulSoup, which is processed and served with an Express backend to be displayed in the website frontend using d3. I worked on the backend and helped with polishing the frontend.