

CARSON FULMER

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EDUCATION

University of Florida

BS Computer Science *GPA: 3.5*

Gainesville, FL

Jan 2024 - May 2026

SKILLS

Programming Languages: C++, C, Typescript, Python
Development Tools: Git, GitHub, Google Cloud, Windows, Linux, Command Line
Relevant Coursework: Data Structures, Computer Science 1 (C), Programming 2 (C++), Computer Organization

EXPERIENCE

Research Assistant

Undergraduate Research Assistant

Gainesville, FL

Jan 2025 - Present

- Developed a concurrent, distributed platform on which to perform agent based simulations using Ponylang. Ponylang is an actor and object oriented language that excels in leveraging its inherent concurrent model of execution. Implementing clean code, in case of needing to scale up our design.
- In order to build a highly performant system, we employed state-of-the art concurrency patterns, optimized scheduling and memory management, and utilized distributed information frameworks.

Intercruises - Shoreside & Port Services

Guest Customer Service

Tampa, FL

Aug 2021 - Dec 2023

- Guided and assisted travelers through various sections of the cruise terminal, ensuring efficient navigation and effective communication with the guests.
- Assist customs and boarder patrol for a smooth transition between oncoming and outgoing clients through the terminal.

PROJECTS

Global Health Analysis (WIP) - TypeScript, C++, HTML/CSS, Git, JavaScript

<https://github.com/carsonful/World-Disease-Analysis>

- Created a **C++ backend** to process and **analyze** global health datasets which will export to a json file in which the frontend can read and display the dataset, utilizing **Git version control** for **collaborative development**
- Built responsive data visualizations using **Chart.js** to display disease patterns and health metrics, implementing **interactive** features for data exploration, allowing the user to select between graphs, and types of disease shown

Starcrosser - C++, QT Creator, Git

<https://github.com/fmcubium/Starcrosser>

- Developed an interactive space visualization tool in C++ using **QT Creator** to help users comprehend vast interstellar distances using familiar vehicles that make it more clear and understandable
- Implemented **A* and Dijkstra's algorithms** to calculate optimal paths between star systems, using adjacency lists to efficiently store stellar data, whilst also being easy to access and understand for other developers
- Collaborated in a team of 3 developers using **Git branching** strategy and code review workflows, ensuring high code quality through **peer reviews** before merging, and allowing for clear communication between developers

DoneTogether - Typescript, React, MongoDB, Express, User Authentication <https://github.com/oixel/DoneTogether>

- A collaborative goal-tracking platform that connects individuals with similar aspirations, allowing them to create shared goals, track progress together, and hold each other accountable.
- Transforms the solitary process of goal achievement into a social experience through features like collaboration, progress visualization, and resource sharing, making success more attainable through mutual support.

Canvas Calendar - Python, Git, Canvas API, Google Cloud, Linux

<https://github.com/carsonful/canvascalendar>

- Built an automated notification system using Python to fetch Canvas assignments and deliver SMS alerts via TextNow API and customizable messages to the users mobile device every day at a certain time
- Integrated OpenWeather API and motivational quotes to enrich notifications with weather updates and daily inspiration, which can be customized by the user depending on the location
- Implemented time zone handling and data formatting using Pandas for accurate assignment due dates across different regions a cron tab to handle running the program daily hosted on a **Google Cloud VM**

CERTIFICATIONS

Intro to Programming using Python

Microsoft Technology Associate
April 2022

Security Fundamentals

Microsoft Technology Associate
April 2022