Isaac Foster

ifoster41901@gmail.com | (413) 727-2198

Education

Rensselaer Polytechnic Institute | Troy, NY   **August 2020 - May 2024**

Bachelor of Science in Computer Science, Minor in Economics, Most Recent GPA: 3.75/4.00

Relevant Coursework: Computer Science I, Data Structures, Discrete Math, Computer Organization, Introduction to Algorithms, Principles of Software, Linear Algebra, Software Design and Documentation, Programming Languages, Operating Systems, Network Programming, Database Systems

Experience

deFacto Global | Remote   **May 2022 – August 2023**

Software Development Intern
- Led the transition of the login security access token library from ADAL to MSAL
- Conceptualized and executed the development of Windows Forms components tailored for a business analytical desktop application
    - Utilized C# and the .NET Framework to efficiently store user input data
    - Seamlessly converted user-generated data into XML format and securely archived it in an SQL database
    - Implemented a robust mechanism to repopulate data structures and forms from the XML data stored in SQL

Aixus Health | Remote   **June 2023 – August 2023**

Software Development Intern
- Built a web application to streamline inpatient and outpatient care for health providers
    - Employed React Native and Next.js to create an intuitive front-end, encompassing a user-friendly dashboard and associated content
    - Utilized Supabase for the back-end infrastructure, facilitating secure storage of patient and provider data

Coursework & Projects

BidOS Account Page   **Spring 2023**
- Designed and implemented Account page for BidOS, an open source crowdfunding platform
- Stack consists of React framework and uses AWS DynamoDB and Amplify to host data and web domain
- Used GitHub OAuth 2.0 to create a login page for users to login using their GitHub account

BestProfessorList Website   **Fall 2022**
- Created web application to compile and display data from RateMyProfessors and the RPI course Catalogue for students choosing courses to view top rated professors for a given class
- Implemented with React in JavaScript and uses AWS DynamoDB and Amplify to host data and web domain
- Python used to scrape RateMyProfessor data and interpret classes, API then used to write to JSON files

Campus Route Finding Tool   **Spring 2022**
- Implemented application to assist university visitors in finding their way across a campus
- Created Java application that employs Dijkstra's algorithm to compute quickest route between two locations
- Parsed information from CSV files then outputted user travel instructions step-by-step

Skills

Programing Languages: C#, C++, C, Python, Java, JavaScript, SQL, HTML, CSS, XML, LaTeX, Prolog, Scheme, Haskell, MIPS Assembly, JSON

Computer Science: Computer Systems, Algorithm Design, Data Analysis, Software Architecture

Software: Visual Studio, Windows, Linux, DynamoDB, Amplify, Vi, Supabase, Next.js, React, .NET

Clubs & Organizations

Lambda Chi Alpha   **February 2021 – Present**
- Systems Administrator – maintained 32 TB Linux server of academic materials

Alpine Ski Team   **November 2020 – Present**
- Captain, Varsity Member