

# ISAAC FOSTER

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

## Education

**Rensselaer Polytechnic Institute** | Troy, NY

**August 2020 - May 2024**

Bachelor of Science in Computer Science, Minor in Economics

GPA: 3.31/4.00

*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 | *Software Development Intern*

**Summer 2022, Summer 2023**

Software platform automating business analytics, forecasting and budgeting

- Managed and coded the transition of the login security access token library from ADAL to MSAL
- Designed and executed development of Windows Forms components for a business analytical desktop application
  - Utilized C# and the .NET Framework to efficiently store user input data
  - Converted user-generated data into XML format and securely archived it in an SQL database
  - Implemented logic to repopulate data structures and forms from the XML data stored in SQL
- Performed product debugging and testing to enable testing automation with Leapworks

**Aixus Health** | Remote | *Volunteer Full Stack Development Intern*

**Summer 2023**

Startup providing interface for providers and patients focused on informed consent and outpatient care (recruited by professor)

- Built a web application to streamline communications between healthcare providers and their patients
  - 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

**Readee**

**Fall 2023**

- Created a chrome extension that leverages GPT4 and Echo3D to provide 3D models and context specific definitions for user selected items on a given webpage
  - Injected JavaScript, HTML, and CSS to display buttons for user to interact with on the desired website
- Implemented Echo3D JS SDK to parse text on page and display 3D web model and an AR QR code

**BidOS**

**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

## 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 Fraternity** | *Member*

**February 2021 – Present**

- Systems Administrator – maintained 32 TB Linux server of academic materials

**Alpine Ski Team** | *Captain*

**November 2020 – Present**

- Lead team to 2023 USCSA Nationals
- 2022 Regional Champion, 2023 Regional Champion