

Isaac Foster

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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

Readee

Fall 2023

- 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

Programming 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