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   GPA: 3.31/4.00
> *Relevant Coursework*: Linear Algebra, Operating Systems, Network Programming, Algorithms, Software Design, Database Systems, Econometrics

Professional Summary

Results-driven Software Engineer with proven experience in full-stack development, machine learning, and cloud computing. Adept at building scalable, user-focused applications using modern frameworks like React, Next.js, and Supabase. Skilled in translating business needs into technical solutions, streamlining workflows, and delivering measurable results. Passionate about creating impactful software and driving innovation in technology.

Skills

Programing Languages: Python, JavaScript, C#, SQL, TypeScript, C++, HTML, CSS
Frameworks & Tools: React, Next.js, Neo4j, MapboxGL, .NET Framework
Cloud & Databases: AWS (Amplify, DynamoDB, Lambda, API Gateway), SQL Server, Supabase
Specialized Skills: Machine Learning (XGBoost, NumPy, pandas), Data Visualization, Debugging & Testing

Experience

Hirebird | Remote | *Full Stack Developer*   **Summer - Fall 2024**

- Developed a scalable full-stack web application using **React** and **Next.js**, optimizing the job application process for >11,000 users.
- Designed and implemented a real-time job search map with **MapboxGL**, enhancing usability and search precision.
- Built a dynamic admin dashboard leveraging the **React Query** library for optimized data fetching

deFacto Global | Remote | *Software Development Intern*   **Summer 2022, Summer 2023**

- Migrated security library from ADAL to MSAL, improving authentication reliability
- Developed modular Windows Forms components for a business analytics desktop app using **C#** and **.NET Framework**.
- Automated data archiving into an **SQL database** with XML conversion and repopulation logic, reducing manual data processing time
- Conducted extensive debugging and testing, contributing to the development of testing automation with **Leapworks**.

Notable Projects

Pickpockt - Full Stack iOS and Web App   **Fall 2024 - Present**

- Created a predictive analytics platform for UFC and NFL outcomes, using **gradient boosting models** and **Python libraries** (NumPy, pandas).
- Designed and implemented a clean, intuitive UI/UX for both mobile and web platforms
- Developed using **React Native**, **Next.js**, **Supabase**, and **TypeScript**; available on the Apple App Store and web.
- Implemented robust data pipelines and APIs, processing real-time data for prediction models using **AWS Lambda**

Readee - Chrome Extension   **Fall 2023**

- Developed a browser extension integrating GPT-4 and Echo3D to display 3D models and contextual definitions for selected web content.
- Injected JavaScript, HTML, and CSS for seamless UI integration, and used the Echo3D JS SDK for AR/3D model rendering.

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 and was the Regional Champion from 2022-2024