Elliott DuCharme

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Skills

Languages: C#, SQL, TypeScript, Java, C/C++, Python
Technologies: React, .NET, Next.js, Node.js, Tailwind, NUnit, Blazor, Godot, Unity
Soft Skills: Adaptable, innovative, self-motivated, tenacious

Work Experience

Software Engineer   Sioux Falls, SD
KBR   June 2023 – Present
- Integral member of the FEWS NET team, which uses data to assist governments worldwide with famine prediction and preparation.
- Rewrote FEWS NET website using React, Next.js, TypeScript, and Tailwind.
- Assisted with testing the website before release and helped resolve issues identified during testing.
- Demonstrated proficiency in frontend development and a commitment to leveraging technology for positive societal outcomes.
- Currently working on SWIM, an internal React app for managing employees.

Software Design Intern   Remote
Daktronics   May 2022 – May 2023
- Tested new versions of several software and hardware products for digital signage and helped resolve impediments relating to them.
- Gained experience communicating issues with members of the appropriate teams when issues arose.
- Contributed to Orion, a C# web app for automating test cases years in the making.

Projects

MemoryMosaic   github.com/ellman12/MemoryMosaic
- A C# Blazor app for storing a lifetime of photos and videos.
- Gained extensive experience with media metadata and creating/optimizing web apps and databases.
- Libraries can scale into the millions with no performance issues.

Dish Up
- A Blazor app utilizing PostgreSQL for creating, managing, and sharing cooking recipes, with a great UX on both mobile and desktop.
- Led the project using Scrum. Delegated tasks, helped design UI, and helped members get tasks done.
- Validated functionality of backend with NUnit unit tests and test-driven development.

AutoHotkey Scripts   github.com/ellman12/AutoHotkey-V2
- Large repository of AutoHotkey scripts for automating many aspects of my work.
- Includes programmable mouse, keyboard, and macro pad, each with dozens of buttons and actions.
- Utilizing these tools over the years, my code output and quality has grown significantly.

Education

Dakota State University   Madison, SD
B.S. Computer Science, Magna Cum Laude   August 2020 – May 2023