

Elliott DuCharme

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Skills

Languages: C#, SQL, TypeScript, Java, C/C++, Python

Technologies: React, .NET, Next.js, Node.js, Tailwind, Godot, Unity

Soft Skills: Adaptable, innovative, self-motivated

Work Experience

Software Engineer

KBR

Sioux Falls, SD

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.
- 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

Daktronics

Remote

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 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

B.S. Computer Science, Magna Cum Laude

Madison, SD

August 2020 – May 2023