ΝΑΤΗΑΝ ΤΕΟΗ

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WORK EXPERIENCE

Enhanced Software Products

Software Engineer

January 2022 - Present Spokane Valley

- Implemented a Rust-based REST API to facilitate communication between third-party services and our flagship product, significantly improving payment processing speed
- Streamlined build and deployment processes using Azure Pipelines, reducing manual effort and ensuring consistent and efficient releases
- Modernized a legacy C++ codebase by updating toolsets, replacing deprecated functions, and eliminating unsafe code by leveraging Rust equivalents via FFI
- Optimized existing C# code by converting single-threaded and blocking code to mult-threaded and non-blocking, preventing deadlocks to the databases
- Integrated the TWAIN library, expanding peripheral compatibility for our C++ product by supporting 100+ additional devices and enhancing overall functionality
- Designed and developed efficient SQL queries to retrieve, analyze, and manipulate data from our relational databases, supporting various reporting and data-driven functionalities within the application.

PERSONAL PROJECTS

Spokane-Rust meetup

https://www.spokanerust.com/ Founded and actively participate in the Spokane Rust user group, fostering a vibrant community to learn, share, and promote the adoption of Rust

freshair.farm Ansible, Docker, Cloudflare, Traefik https://www.freshair.farm A curated collection of self-hosted and open-source services designed to empower you with control over your data and promote decentralization

ditherpunk Rust

https://git.freshair.farm/nathan/dither A command-line tool written in Rust for converting images to a limited color palette using dithering techniques, creating visually distinctive aesthetics

Pong Rust, Bevy, ECS

https://git.freshair.farm/nathan/pongers An experimental work-in-progress project recreating the classic Pong game using the Bevy game engine and the Entity-Component-System (ECS)

SKILLS

- Programming Languages: C, C++, C#, Rust, SQL, Python
- Tools: Linux, Git, Qemu, Scikit-learn, Tokio, .Net, Azure

EDUCATION

Eastern Washington University

BS Computer Science & Data Science

Aug 2018 – Aug 2021 Cheney, WA

• GPA: 3.4