

Austin Rooks

Software Engineer

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Experienced Software Engineer with a demonstrated history of working in full stack web development. Skilled in TypeScript (React, Qwik), Rust (Actix, Axum), CSS, and SQL (Postgresql). Gumption and curious. Interested in distributed systems.

Technical Skills

Programming Languages

Rust, JavaScript, TypeScript, Python, Bash, HTML, CSS, SQL

Frameworks/Databases

React/ Redux, GraphQL/ Apollo, Tailwind CSS, PostgreSQL, MongoDB, HTMX, Express, Axum, Actix, Flask, Django, Qwik

Tools

Docker, Git, Linux

Experience

Northwestern Mutual | Software Engineer, III Mar. 2024 - Present

- * Wrote a custom, low-level SSG Vite framework for prerendering static React apps served from S3.
- * Implemented and configured the full stack (cloudfront → rp proxy → proxy → service) of a new mTLS service for uploading/downloading documents for static frontends.
- * Won engineering department wide hackathon with a frontend toolbar that took advantage of frontends' new architecture to easier collaborate with product and design, and make testing easier.
- * Mentored junior developers, and made contributions to internal engineering blog.

Northwestern Mutual | Software Engineer, II Apr. 2022 - Mar. 2024

- * Implemented an initial subgraph for an entire business vertical in the web and mobile transition to graphql.
- * Reduced the entire client website's LCP by 500ms on average and an almost a full second for p90 requests.
- * Created an internal library that wrapped an express instance providing easier testing and mocking for front end BFFs.

Oxidized Systems | Owner, Software Engineer Jan. 2021 - Present

- * Previous work includes converting a headless JS app into a Qwik/ Qwik-City (TypeScript) frontend and an Actix (Rust) backend for web and native mobile clients to consume.
- * The frontend scores 100 across every Lighthouse metric on both web and mobile. The backend test coverage is over 65%.

Personal Projects (Self-Hosted)

r00ks.io | Rust, Tailwind CSS, HTMX, Markdown, Typst

A personal website and blog, written in Rust.

- * Minimal JS, uses HTMX for simple and efficient page transitions.
- * Self hosted on a Raspberry Pi

Gathering Surf | Rust, Tailwind CSS, Redis

A surf forecast for lake surfers

- * Streams API responses to the client as they are resolved and parsed.
- * Self hosted on a Raspberry Pi

Monkey Lang | Rust

A Rust implementation of the Monkey language

- * The compiler and VM are compiled to WASM and executed in the playground by the client's browser.

Education

University of Hawaii at Manoa | GPA: 3.69

Aug. 2009 - May. 2013

Bachelor of Arts in English, cum laude