

# 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). Gumptious and curious. Interested in distributed systems.

## Technical Skills

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### 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

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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.

The Peach Software Company 🍑 | Owner, Software Engineer Jan. 2021 - Present

- \* Open source contributions, created the peach\_profiler crate, for high-performance, low-overhead instrumentation-based profiling rust code.
- \* 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)

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Peach Profiler | Rust, OSS

A performant, low-overhead instrumentation-based profiler.

- \* A no std, no dynamic allocations, stack-based profiler, ergonomically zero-cost when you don't want it made with attribute macros.

#### Gathering Surf | Rust, Tailwind CSS, Redis

A surf forecast for lake surfers

- \* Streams API responses as HTML 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.

#### 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

### Education

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University of Hawaii at Manoa | GPA: 3.69

Aug. 2009 - May. 2013

Bachelor of Arts in English, cum laude