

DOUGLAS ROCHA

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EXPERIENCE

Software Engineer

Jun 2026 – Present

Blue Cross Blue Shield of Arizona

Arizona

- Restored a third-party lead integration that had been down for months. Traced the failure to its root cause and brought in hundreds of leads in the first two weeks, ahead of open enrollment.
- Rebuilt the site header for desktop and mobile after navigation broke on iPhones, with WAI-ARIA keyboard support and Jest coverage.
- Traced a Sitecore Edge publishing bug to an item path being resolved as a query instead of a direct ID and designed the fix.
- Created a Sitecore component for storing multi-environment scripts, with customizable settings to filter by page and a key-value store for the values.

Software Engineer Intern

May 2025 – Nov 2025

Blue Cross Blue Shield of Arizona

Arizona

- Replaced search logic copied across many search boxes with one shared hook, and tagged each one so Coveo showed where a search came from.
- Finished a Blue Card medical-policy router in the sprint it was requested, so out-of-state members with an ID prefix reached the correct policy page.
- Fixed the Prior Authorization Lookup autocomplete and made its results print cleanly to PDF.

Software Engineer Intern

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- Built the full forgot-password flow, with text and email codes, magic links, enrollment, and expiration, and synced sign-in state so a magic link opened in a new tab updated the original tab through local storage.

SKILLS

Languages: TypeScript, Rust, Odin, C#, Lua, SQL

Frameworks & Tools: Next.js, React, Tailwind, .NET, Node.js, Jest, WebAssembly, Vulkan, PostgreSQL, SQLite, Git, Linux, Sitecore, Coveo

PROJECTS

Scuttle DB

- Built a relational database in Rust with a hand-written SQL parser and an executor for SELECT with filters, grouping and joins, plus INSERT, UPDATE, and DELETE.
- Stored rows in 8KB pages with a buffer pool, and compiled the same engine to WebAssembly so it runs in the browser at dougrocha.com.

Veil

- Built a Vulkan 1.4 renderer in Odin with bindless textures, clustered light binning, cascaded shadow maps, and GPU frustum culling with indirect draws.

Fala

- Building an LLM inference server in Odin on llama.cpp, with a streaming chat endpoint over server-sent events, batched decoding across request slots, and a router that spreads requests over worker processes.

Markdown Language Server

- Built a Rust language server so a Markdown vault could preview a wiki link, open the target heading, find references, and rename across notes.

EDUCATION

Arizona State University

Tempe, AZ

Bachelor of Science, Computer Science

Jan 2023 – May 2026

- GPA: 3.5, Dean's List

Brookdale Community College

Lincroft, NJ

Associate of Science, Computer Science

Aug 2020 – Dec 2022