

Ryan Saul

Full-Stack Web Application Development Manager

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Profile

Engineering Manager with 9 years of leadership and 16 years of full-stack software engineering experience building and scaling high-availability web applications and video streaming platforms. Proven track record of growing high-performing teams from the ground up, shipping full-stack products across React, TypeScript, and Python, and driving “Operational Excellence” to reduce major production incidents from 100+ to fewer than 5 per year.

Work Experience

Software Development Manager

Nov 2019 – Present

Frontdoor, Inc (acquired from Stroom) – Remote

- Led the Web & Platform teams following the Stroom acquisition, evolving several startup squads into a unified enterprise team with consistent full-stack coding patterns, testing standards, and CI/CD practices.
- Architected and delivered a reusable video streaming SDK integrated across multiple web applications in React and TypeScript, serving 1,000+ daily users managing video recordings at scale.
- Directed the migration of the video streaming platform to AWS Chime SDK, reducing video compilation time from 30 minutes to under 1 minute by shifting to real-time compilation.
- Led the implementation of an AI-powered call summary feature for service agents using AWS Bedrock, reducing post-call summarization time from 5 minutes to under 1 minute.
- Improved engineering velocity by optimizing the CI/CD pipeline, increasing release frequency from monthly to daily deployments.
- Spearheaded a cross-functional Flex Team, deploying full-stack engineering resources across the organization to unblock high-priority projects in React, Python, .NET, and Go.
- Engineered a step-change in platform stability, reducing major production incidents from 100+ annually to approximately 3 per year by implementing rigorous Operational Excellence standards.
- Hired and onboarded 20+ engineers, mentoring individual contributors into senior and staff-level leadership roles.

Engineering Manager, Quality & DevOps

Feb 2019 – Nov 2019

CUNA Mutual – Portland, OR

- Recruited and led an engineering team focused on release quality, shifting testing left and reducing post-release defects.
- Engineered automated frontend test coverage for a multi-step web application form using Selenium, catching regressions early and increasing release confidence.
- Architected a greenfield CI/CD pipeline using Jenkins and Terraform, eliminating manual bottlenecks and accelerating releases from ad-hoc cycles to consistent weekly deployments.
- Optimized cloud infrastructure by auditing and decommissioning under-utilized AWS services, reducing monthly costs by 25%.

Engineering Manager, Quality & DevOps

Oct 2017 – Jan 2019

4-Tell – Portland, OR

- Built automated frontend test suites covering a single-page application and multiple embedded client pages, ensuring consistent behavior across varied deployment contexts.

- Established .NET Core automated pipelines using AppVeyor and Azure, transforming manual release cycles into fully automated deployments.
- Recruited and led a three-engineer team dedicated to building automated test frameworks and optimizing release pipelines.

Software Development Engineer in Test & Infrastructure

Feb 2011 – Oct 2017

Jama Software – Portland, OR

- Contributed to the implementation of the Review Center, a web-based collaborative feature enabling teams to review and approve requirements documents and track changes within the core product.
- Developed the core REST API for the primary web application and validated it through a comprehensive suite of automated Python tests.
- Built and maintained a full Java and Selenium automated testing suite for the web interface, significantly reducing manual QA cycles.

Skills

Engineering Leadership: Team Building, Hiring & Onboarding, Mentorship, Operational Excellence, Incident Management, Agile (Scrum/Kanban), Strategic Planning, Release Coordination

Full-Stack Development: React, TypeScript, Python (FastAPI, Django), REST APIs, WebSockets, PostgreSQL, Tailwind CSS

Infrastructure & DevOps: AWS (EC2, ECS, EKS, S3, RDS, Bedrock, Lambda, DynamoDB), Docker, Kubernetes, Terraform, GitHub Actions, GitLab CI/CD

Tools & Automation: Postman, JIRA, Cypress, Selenium, Claude Code, Cursor

Projects

FetchTag

Dec 2025

Full-Stack QR Code Platform – fetchtag.net

- Engineered a full-stack platform allowing users to create QR codes, dynamically update the destination URL at any time, and track scan counts, using FastAPI (Python) on the backend and React (TypeScript) on the frontend.
- Architected a modern, distributed deployment strategy using Vercel (frontend), Render (API), and AWS to ensure platform scalability and high availability.

NextUp Karaoke

May 2026

Real-Time Karaoke Queue App – nextupkaraoke.app

- Engineered a mobile-first karaoke app using FastAPI (Python), React (TypeScript), and Tailwind CSS, allowing party guests to search YouTube for karaoke tracks and add them to a shared queue directly from their phones.
- Implemented real-time queue synchronization across all connected party guests using WebSockets, ensuring every participant sees live updates as songs are added, skipped, or reordered without any page refresh.

Education

BA in Management Information Systems

Graduated 2010

Washington State University – Pullman, WA