

Taylor Silenzio

Senior software engineer with 12+ years building backend and distributed systems: real-time data pipelines and multi-tenant platforms, with the authentication and observability layers beneath them. I build the infrastructure other teams rely on and own it from design through production. Recent work includes an in-house multi-tenant platform that cut **\$2.7M+ annually** in third-party vendor spend. A decade across PHP, Node.js, TypeScript, and Go brought me to Rust, where I now focus on systems and CLI tooling down to the FFI layer.

Work Experience

Senior Software Engineer • **Keller Williams Realty** Jun 2019 — May 2026

Node.js, TypeScript, JavaScript, Go, Rust, GraphQL, MongoDB, NestJS, Apollo Federation, Cloud Functions, Pub/Sub, Dataflow, OpenResty, Nginx, Docker, Kubernetes, OAuth 2.0, JWT

- Eliminated **\$2.7M+ annually** in third-party vendor spend by architecting a multi-tenant subdomain platform with per-tenant branding, using a Redis-backed subdomain cache and Nginx with Lua scripting for request-time routing.
- Architected a multi-service event-processing pipeline on BigQuery append-only event rows with materialized views and Dataflow frequency windowing, fronted by anti-corruption layers and coexisting with the legacy system it replaced through a multi-year migration.
- Shipped the OAuth 2.0 client and token layer in **~30 days**, finishing just before a 12,000-attendee on-site event, with JWTs signed and verified across services via a shared public key, plus server-side refresh tokens for forced logout.
- Rebuilt a four-times-cloned templating engine as a modular system with a pluggable per-template compiler registry, decoupled from NestJS and portable across Node.js and TypeScript services, compiling each template once and caching the compiled form for fast per-request rendering.
- Standardized distributed tracing across the platform's Node.js microservices with a self-initiated bootstrap pattern that eased a later low-friction switch to Datadog and remains in production today.
- Engineered a Rust CLI that collapsed a 2-3 day manual translation-sync cycle to **under 30ms**, with bidirectional linting that surfaced orphan files, dropped languages, and drift the manual process had been shipping to production undetected.
- Containerized full local development with Docker Compose, replacing a shared environment where one bad push blocked everyone and every inspection cycle cost a 10-minute round-trip, cutting iteration to seconds over years of team use.

Senior Software Engineer • **Apricity Health** Mar 2018 — Feb 2019

Node.js, Serverless Framework, DynamoDB, Amazon SNS, Amazon SES, CloudWatch

- Architected distributed tracing and correlated logging across web, mobile, and backend microservices, making cross-service issues reproducible from any of five scopes, device, auth, tab, action, or request, by reconstructing call graphs with sanitized request context.
- Built a self-initiated framework adopted across all Node.js microservices on AWS Lambda, wrapping bootstrap, persistence, error handling, and response shaping, holding per-request overhead **under 1ms** as one user action fanned out to dozens-to-thousands of calls.
- Execution time on several backend operations dropped **50%** by profiling the hottest asynchronous request paths across the microservice graph and removing their avoidable processing overhead.

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Skills

Languages

TypeScript, Node.js, Go, JavaScript, Rust

Backend & Architecture

Microservices, Distributed Systems, System Design, Multi-tenancy, Event-Driven Architecture, NestJS

APIs & Auth

REST APIs, GraphQL, OAuth 2.0

Data

PostgreSQL, MongoDB, Redis, BigQuery

Cloud & Observability

AWS, Lambda, GCP, Distributed Tracing, Datadog

Selected Projects

rune-keychain

Code-signed macOS CLI for headless Keychain access and iCloud sync. Implements custom C FFI bindings for legacy Apple ACL APIs that no Rust crate currently binds.

Rust, FFI, security-framework-sys, core-foundation

diorama

Rust TUI for previewing terminal themes across 24 developer panes (git log, jq, eza). Uses ANSI 0-15 so output reflects the active palette, detects shell and prompt tooling, with responsive grid and fullscreen modes.

Rust, ratatui, crossterm, ansi-to-tui, which, clap

Work Experience

Senior Software Engineer • **Genband** Sep 2016 — Feb 2018

React.js, Redux, WebRTC, Skype for Business API, Microsoft Office API, Active Directory SSO, Git

- Led a ground-up rewrite of a unified communications product after challenging a plan to retrofit a new application architecture into a legacy app whose ~12,000-bug backlog included customer-blocking defects, winning approval by showing rebuilding would be faster.
- Devised Slack-style channels on the Skype for Business messaging API, which exposed no native channel primitive, modeling each as a metadata-tagged group conversation with hidden-invitation automation for public self-join and invite-gated access for private channels.

Senior Software Engineer • **Yashi, Inc.** Jun 2015 — Sep 2016

Software Engineer Dec 2013 — Jun 2015

PHP, Symfony, Laravel, MySQL, Nginx, RabbitMQ, CI/CD, Bash, Git, GitLab CI, Linux

- Rewrote the data layer behind the post-login analytics landing page as a single server-side PostgreSQL query over per-time-bucket database views, replacing PHP-side multi-query stitching and cutting page load from **~5s to ~250ms** across billions of raw monthly events.
- Under a **90-day investor deadline**, architected an API-first consolidation of two legacy PHP and Symfony applications into REST APIs consumed by a thin self-service portal, preserving legacy schemas while adding a cross-system mapping database.
- Designed a multi-tenant identity and Role-Based Access Control (RBAC) system supporting concurrent customer and internal roles per user, with one URL-to-role table driving route-level authorization and generating per-role navigation.

Selected Projects

homelab

Proxmox homelab as IaC with Terraform and pyinfra. 14 LXC containers run game servers, self-hosted git, app deploys, monitoring, CI runners, VPN. Disposable rootfs with snapshot-backed per-service ZFS state, validated by a full-fleet rebuild.

Proxmox, ZFS, Sanoid, Terraform, pyinfra, Tailscale