

Jonathan Powers

Senior Software Engineer

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Senior software engineer with seven years of experience building backend systems, web applications, integrations, developer tools, and high-traffic websites. Recent work has centered on TypeScript, Effect, PostgreSQL, Kubernetes, and AWS.

WORK EXPERIENCE

Senior Software Engineer, Platform Team, Vitalize Care (February 2026 - Present)

Platform engineer for a nurse scheduling product, owning delivery, performance, reliability, CI, and developer tooling.

Product Delivery & Performance

- Prepared self-scheduling for launch by removing performance bottlenecks, improving p95 roughly 26x in a 40-user load test and validating 200 concurrent users per unit without failures or timeouts
- Built the weekly workforce analytics pipeline behind Grafana reporting, with denormalized PostgreSQL models, hourly syncs, production backfills, and metrics for utilization, optimization impact, feature adoption, and expected savings

Observability & Reliability

- Replaced scheduled GitHub smoke tests with Argo-based API and browser checks across four environments, with secure authentication and alerts for failed or missing runs
- Instrumented PostgreSQL, Redis, Effect Cluster, auth, and RPC with OpenTelemetry and linked audit records to originating traces, exposing multi-second authentication bottlenecks
- Completed a breaking SigNoz Terraform provider migration across 386 alerts and more than 60 dashboards without disrupting paging or changing alert behavior
- Wrote the team's observability guide and ran hands-on sessions with product teams on tracing incidents, building actionable alerts, and tuning noisy pages

CI & Developer Infrastructure

- Rebuilt CI to eliminate full-suite memory failures and run 13,000+ tests across 18 workspaces, including 48 API test files the old pipeline had skipped
- Automated schema migrations for the analytics replica without exposing the database publicly, keeping reporting compatible with production releases
- Created the engineering guide used in human and AI-assisted review, covering service design, testing, and TypeScript
- Moved shared business logic out of API handlers into independently testable services, narrowing database transactions as legacy endpoints moved to Effect RPC

Founding Engineer, expand.ai (May 2025 - February 2026)

Founding engineer at a pre-launch AI startup, building customer prototypes and the shared systems behind them.

Browser Pipeline

- Turned existing browser and conversion components into a concurrent HTML-to-Markdown pipeline that coordinated isolated workers and asset processing, with an extension point for ML transformations
- Moved asset archival and post-processing off the browser's critical path so processed assets could stream back while background work finished
- Hardened browser workers under load by marking busy instances unavailable in HAProxy, so new requests were routed around workers handling foreground traffic or heavy background jobs

Durable Workflows & Billing

- Helped secure and deliver a six-figure AI-lab contract by building scraping jobs that ran for hours and resumed safely after restarts, with progress persisted throughout each run
- Built a durable metering pipeline in Effect Cluster that batched customer-scoped usage events for upload to Orb

Codebase Stabilization

- Spent three months stabilizing the existing Effect codebase: fixed scope and lifecycle failures, introduced layers and clear service boundaries, and paired with the team on the new patterns

Senior Software Engineer, Platform Team, Storable (July 2023 - May 2025)

Technical lead for regulated insurance products and cross-team platform work; named Storable's Breakthrough Leader of 2023.

Integration Platform & Developer Tooling

- Helped rewrite a C# facility integration layer in TypeScript and NestJS. Preserved adapter behavior across three source systems and kept normalized APIs and generated OpenAPI contracts accurate
- Built a TypeScript identity library that replaced loosely related optional fields with variants keyed by source system and entity type, so consumers could access only valid facility and company identifiers
- Built OpenAPI Generator tooling and GitLab CI publishing for TypeScript, Ruby, and .NET clients. Teams across the platform organization adopted it in place of handwritten service clients

Product & Partner Integrations

- Helped deliver a seven-figure integration for a major storage operator by building a tenant-isolated, read-only partner API with time-limited access. The gateway was later reused for other insurance providers
- Replaced pushed reports with self-service partner queries backed by read models that updated on each event
- Owned delivery of an embedded support portal that combined Salesforce emails and public comments into in-product threads. It used token-based identity, kept Salesforce behind a dedicated adapter, and enriched inquiries for routing

Events & Contracts

- Built nest-dapr, a NestJS package enforcing Storable's CloudEvents contract for subscriptions and typed publishing
- Led Insured-to-Value delivery, adding policy-aware minimum coverage by unit and increasing insurance revenue at participating operators by at least 35%
- Built a multi-environment event-bus viewer that streamed Dapr/Kafka topics over WebSockets, giving teams a way to inspect and publish live events and diagnose contract or serialization failures

Insurance Platform

- Led the design of a flagship service that combined two acquired certificate-management systems into one product. It covered shared data models, source-system sync, PDF generation, templating, and hierarchical search
- Onboarded a Hyderabad team of more than six engineers to Effect through pairing, reviews, and hands-on implementation
- After the handoff, led a multi-month hardening effort that simplified the code, made its patterns more consistent, and left the service easier for the new team to own

Software Engineer II, Storable (July 2022 - July 2023)

Won Storable's company-wide hackathon by building a Swift/iOS LiDAR app matching scanned items to nearby SpareFoot listings. Shipped proof-of-insurance workflows across Ruby, C#, NestJS, and Next.js plus reusable Dapr/Kafka tooling used across teams.

WordPress Developer, YIKES, Inc. (December 2020 - July 2022)

Built full-stack features, payment workflows, and third-party API integrations for high-traffic WordPress VIP properties.

Web Developer, AudiologyDesign (May 2020 - December 2020)

Built and maintained healthcare and audiology multisite applications and containerized development workflows.

Full Stack Web Developer → Lead Web Developer, 1SEO (April 2019 - May 2020)

Promoted to lead after introducing repeatable development tooling, templated builds, and Git-based deployments.

EDUCATION

Associate of Science in Computer Science (2016)

Camden County College, Blackwood, NJ

SKILLS

Languages & Frameworks: TypeScript, Node.js, Effect, React, Next.js

Backend & Integration: Distributed Systems, API Design, Event-Driven Systems, Kafka, Dapr, OpenAPI

Data: PostgreSQL, SQLite, Redis, MySQL/MariaDB, MongoDB

Infrastructure: AWS, Kubernetes, Docker, Argo Workflows, Buildkite

Observability: OpenTelemetry, Grafana, Distributed Tracing, Structured Logging