

BRANDON GOTTLOB

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EXPERIENCE

Senior Site Reliability Engineer

Nov 2022 - Present

Peloton Interactive

Remote

- Migrated Peloton's production services off a legacy 250-node Kubernetes monolith onto a fleet of reproducible 100+ node clusters, guiding development teams through load balancer setup and gradual traffic shifts
- Set the technical direction for Peloton's multi-cluster Istio service mesh spanning hundreds of production services, with independent highly-available control planes, mTLS-secured intra-mesh traffic, and automatic cross-cluster failover enabling zero-downtime cluster rotations ([documented in AWS blog](#))
- Owned capacity planning and pre-scaling for [Turkey Burn 2025](#), sustaining 7.27 billion requests across the multi-cluster Istio mesh at a peak of 452,000 requests/second with zero downtime
- Authored Terraform modules and Helm charts for core cluster components, enabling a new production-grade cluster to be built via ArgoCD and serving live traffic in under 30 minutes
- Built a Kubernetes operator in Rust that automatically scopes Istio proxy configurations based on live traffic patterns, reducing sidecar memory consumption and xDS push latency across the production mesh
- Developed a global rate limiting service in Rust implementing [Envoy's RLS protocol](#) with Redis-backed distributed state, automatically prioritizing traffic to protect critical services during degradation
- Partnered with the social team to feed their moderation signals into mesh-level rate limiting, blocking malicious users at the edge before they reach backend services
- Drove org-wide observability standardization with an end-to-end Istio access log pipeline and embeddable Datadog Powerpacks, adopted across development teams as default instrumentation and reducing support escalations by letting teams self-serve traffic debugging
- Established SLOs for Istio mesh traffic and control plane operations with multi-window burn rate alerting
- Led incident response and root cause analysis for multiple high-severity outages, including DNS resolution failures degrading home screen load times and gateway overload during traffic spikes, implementing fixes that prevented recurrence

Senior Site Reliability Engineer

Mar 2021 - Nov 2022

Tabula Rasa HealthCare (TRHC)

Moorestown, NJ

- Minimized excessive infrastructure alert noise and wrote actionable playbooks for incident mitigation, enabling an on-call rotation
- Transitioned legacy Elasticsearch clusters for app log indexing to AWS OpenSearch
- Developed Terraform modules adding observability and SLA dashboards for products
- Standardized incident response and postmortem practices across the company, improving incident response time by 55%, from 42 to 19 minutes
- Developed Elixir-based chatbot automating paging and other incident practices
- Led observability interest group and presented research on emerging technologies such as OpenTelemetry

Software Engineer

May 2016 - Mar 2021

Tabula Rasa HealthCare (TRHC)

Moorestown, NJ

- Designed and developed cloud infrastructure enabling horizontal scaling and orchestration of regression tests using Ruby and RabbitMQ
- Supported 6 development teams in scaling tests, reducing feedback time on code changes by over 12 business hours and enabling bi-weekly releases to production
- Developed frameworks, design patterns, and production-like data generation libraries for building maintainable regression test code
- Led team responsible for testing, maintaining reliability, and managing releases of the MedWise web-based application suite
- Developed production monitoring tools, automated test suites, and GitLab continuous integration pipelines for MedWise using Ruby and Selenium
- Eliminated nearly all high-impact production regressions within 18 months of test suite development
- Responded to production incidents by analyzing logs and metrics, diagnosing root causes, and communicating workarounds and status to end users

EDUCATION

New York University, Tandon School of Engineering | *GPA: 3.9*

2019 - 2020

M.S. | *Computer Science*

The College of New Jersey | *GPA: 3.9*

2012 - 2016

B.S. | *Computer Science*

SKILLS

Languages: Rust, Elixir, Erlang, Ruby, Bash

Infrastructure & Platform: Kubernetes, Helm, Terraform/HCL, Amazon Web Services, Istio, Envoy, gRPC/Protobuf, Redis, Kafka, Docker, Packer, ArgoCD, Nix/NixOS, GNU/Linux, PostgreSQL, MySQL, CouchDB, Vercel

CI/CD & Observability: Git, GitLab CI, GitHub Actions, Datadog, PagerDuty, OpenTelemetry

PROJECTS

schattenbaum.org

2026 - Present

Schattenbaum Region, Porsche Club of America

- Migrated the chapter's digital presence off WordPress onto a new site built with Astro and hosted on Vercel, with ongoing maintenance as the webmaster
- Instrumented visit metrics using a self-hosted Umami instance for privacy-respecting analytics

COMMUNITY & AWARDS

- **Exercism, Erlang Track Mentor & Maintainer** (Oct 2018 - Present): Mentored 150+ learners through 300+ code reviews on writing idiomatic Erlang. exercism.org
- **Arch Linux Official Tester** (2017 - 2020): Signed off on packages and reported bugs supporting Arch's rolling-release model
- **ACM, TCNJ Chapter** - President (2015 - 2016), Vice President (2014 - 2015): Planned weekly meetings, ran CS department events, and organized the annual HackTCNJ hackathon
- **SpawnFest Overall Winner** (2019): Built a real-time NoSQL database service with an HTTP API backed by ETS in Elixir. github.com/spawnfest/exile
- **SpawnFest Correctness Category Winner** (2018): Developed an Elixir library for building data-processing pipelines backed by Redis Streams. github.com/spawnfest/brink