# **Education**

Master of Science (M.S.) in Computer Science

New York University, Tandon School of Engineering 2019-2020 | 3.9 GPA

Bachelor of Science (B.S.) in Computer Science

The College of New Jersey 2012-2016 | 3.9 GPA

# Skills

- Kubernetes
- Helm
- Terraform/HCL
- Amazon Web Services
- Istio
- Kong
- Rust
- Elixir
- Erlang
- Ruby
- Bash
- GNU/Linux
- Nix/NixOS
- PostgreSQL & MySQL
- CouchDB
- Git
- GitLab CI
- GitHub Actions
- ArgoCD
- Docker
- Packer
- Datadog
- PagerDuty
- OpenTelemetry

# Brandon **Gottlob**

## Experience

## Senior Site Reliability Engineer

#### Peloton Interactive | Nov 2022 - Present | Remote

- Maintain monolithic Kubernetes cluster hosting Peloton's core microservices running on over 250 nodes while developing a new, reproducible fleet of clusters
- Develop Terraform module and Helm charts for core cluster components, enabling a production-grade cluster to be built and serve live traffic in under 30 minutes
- Architect and build multi-cluster server load balancing solution for routing traffic from connected fitness devices, providing resiliency for cluster-level failures
- Design and maintain multi-cluster Istio service mesh providing efficient inter-service communication and automatic failover for service-level failures
- Develop Kubernetes operator and custom resources to provide traffic management capabilities in multi-cluster Istio service mesh to developers with a simple interface
- Maintain and optimize NGINX, Kong, and Istio ingresses on critical path of Peloton class experience, which serve a combined average of 23,000 requests/second and peaking at 100,000 requests/second
- Mitigated in-place deployment risk to Kong ingress controller in the monolithic cluster by building a canary deployment environment

## Senior Site Reliability Engineer

#### Tabula Rasa HealthCare (TRHC) | Mar 2021 – Nov 2022 | Moorestown, NJ

- Minimize excessive infrastructure alert noise and write actionable playbooks for incident mitigation, enabling on-call schedule
- Transition legacy ElasticSearch clusters for app log indexing to AWS OpenSearch
- Develop Terraform modules adding observability and SLA dashboards for products
- Standardize incident response and postmortem practices across the company
- Develop Elixir-based chatbot automating paging and other incident practices
- Lead observability interest group and present research on cutting-edge technologies such as OpenTelemetry
- Improve incident response time by 55%, from 42 to 19 minutes, since introducing SRE practices at TRHC

#### Software Engineer

#### Tabula Rasa HealthCare (TRHC) | May 2016 – Mar 2021 | 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, accelerating feedback 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
- Reduced introduction of high-impact production regressions by 100% within 18 months from the beginning of test suite development
- Responded to production incidents by analyzing logs and metrics, diagnosing root causes, and communicating workarounds and status to end users