Rob Gorman

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Profile

I'm a software engineer based in Boston/SF with experience building performant and reliable applications for distributed systems using Go, JavaScript, SQL and NoSQL paradigms, and containerized deployments via Docker, Terraform, and AWS. Most recently, I built Fána: an open source tool to facilitate real-time application rollbacks and testing in production.

Experience

Co-Creator, Software Engineer 🔗   Apr 2022 – present
Fána (fana-io.github.io)

Open-source feature flag management platform specializing in audience-targeting to facilitate testing in production; containerized with Docker and deployed to AWS
- Engineered a scalable, event-driven service oriented architecture consisting of a Go API, React admin dashboard, Go reverse proxy streaming service, and published npm SDKs for Node.js and React apps
- Led development of PostgreSQL database management service in Go utilizing GORM to define data model at the application level, and concurrency patterns for parallel execution of external service calls
- Established automated unit and integration testing and benchmarking for API and HTTP services according to Go testing framework best practices (interface abstraction, dependency injection, table-driven tests, TestMain)
- Implemented gRPC API leveraging protocol buffers to facilitate strongly typed and performant communications between appropriate services
- Utilized multi-channel Redis message broker in a publisher/subscriber pattern to decouple communication between database service and scalable worker nodes
- Automated cloud deployment of 13 constructs to AWS using both Cloud Development Kit and Terraform to configure and create infrastructure
- Collaboratively conceived, developed, and refined Fána with a remote team of 4 developers across the US
- Authored comprehensive case study on engineering decisions and challenges: fana-io.github.io/case-study 🔗

Software Engineer   2020 – present
Self-Employed
- High-Throughput Queue Service (Go): Scalable data ingestion service; queueing service implemented with Redis Streams for message reliability, Redis Sentinel for queue persistence, and a gRPC API wrapper for performant communications; parallelized queue workers leveraging app-level bounded concurrency to optimize external service calls
- Audit Service (Go): Transaction log data store served via secure RESTful API, implemented in Cassandra for write-heavy performance, arbitrarily wide data, and well-defined query patterns
- RequestBucket: Node.js app using MongoDB and PostgreSQL to monitor web hooks. Terraform deployment to AWS
- Ello: Trello-inspired kanban board for project management; built with Node.js, React, Redux, and MongoDB

Manufacturing Engineer   2012 – 2022
Lentros Engineering
- Automated high-volume tasks to reduce overall workload by dozens of hours weekly: compiling reports from inspection data, generating and filing compliance forms, aggregating project artifacts from disparate data sources; Python, Ruby
- Developed in-house ERP system to model and manage data, resources, and work flow for strictly regulated AS-9100 firm
- Led process development in aerospace prototype manufacturing, collaborating with customer engineer teams to balance design requirements and production constraints with regards to cost, resources, quality, and delivery

Skills

Languages/Frameworks
Go, JavaScript (React/Redux, Node.js), Bash, Ruby/Rails, Python, HTML/CSS

Cloud
Docker, Terraform, AWS (ECS, Lambda, Elasticache, RDS, CloudFormation), DigitalOcean

Other
PostgreSQL, Redis, Linux, gRPC, Cassandra, MongoDB, Git, REST, EventSource

Education

Assumption University   2003 – 2007 | Worcester, MA
BA Philosophy, Mathematics