

8TH LIGHT :: MAR 2014–TODAY

PLATFORM ENGINEERING (CURRENT)

- Led a security-focused reimplementation of a global reinsurer's AWS platform
 - Served as team lead of a newly-formed platform team responsible for creating and governing a new, secure multi-account AWS environment totaling over 30 accounts
 - Assisted 16 developers across 4 product teams in updating Terraform code to migrate from legacy AWS environment to new platform accounts, which remediated over 100 third party cloud security configuration findings and improved AWS Security Hub composite security score by over forty percentage points
 - Obviated 90% of total static IAM access keys by establishing role-based least-privileged auth patterns
 - Introduced several tools to prevent security posture regression, including CI pipeline reports for immediate developer feedback and asynchronous reports for CISO review; communicated regularly with both groups to explain findings and discuss remediation or risk acceptance
 - Created several command line tools in Go for tasks like rotating IAM keys, configuring AWS Security Hub controls, maintaining AWS Control Tower setup, and publishing CI pipeline events to Datadog
 - Developed an internal registry of over 40 shared Terraform modules to standardize infrastructure across product teams and increase their delivery velocity
 - Set up a shared Datadog instance to facilitate service observability, and used it to help execute and verify a zero-downtime DNS migration from legacy to new AWS organization Route53 hosted zones

DATA ENGINEERING

- Led development of a data ingestion pipeline for improving a global reinsurer's loss ratio
 - Parsed policy and claim data in ten different file formats and schemas to load into a normalized PostgreSQL database
 - Developed SQL and Python transformation scripts to enable data team members to explore raw and transformed data with their preferred tools
- Worked on multiple teams developing a big data platform for a global construction equipment manufacturer to predict part failure
 - Took over lead development of a Python CLI tool designed to templatize eleven core PostgreSQL queries for 150 dealers' source systems to efficiently onboard dealers
 - Lead development and analysis of queries for dealers with hundreds of millions of records in SAP systems

APPLICATION DEVELOPMENT

- Contributed to diverse web application systems ranging from legacy monoliths to greenfield microservices using Ruby (Rails, Sinatra), Scala (Play, Akka), Kotlin (Spring), Clojure, Python, PHP (Laravel), TypeScript (React), Java, Docker, Kafka, RabbitMQ, PostgreSQL, and Redis
- Served as developer team lead and primary liaison between development teams and client stakeholders on three client engagements

INTERNAL CULTURE

- Wrote twelve and edited over twenty coworkers' posts on the company blog
- Mentored two coworkers through 8th Light's software apprenticeship
- Reviewed over ten applicant code challenge submissions and managed a team of reviewers
- Interviewed 6 senior-level software developer applicants

FREELANCE :: JUN 2013–MAR 2014

WEB DEVELOPMENT

- Led development of a Rails application for CQA to facilitate event creation and guest reservations, membership payments, content distribution, and group email announcements
- Developed a Rails application for the Batavia Public Library Youth Services staff to register 1,200 patrons for the summer reading program, track progress, and report participation statistics