Isaac Diamond

isaacd9@gmail.com | 206-734-8559 | linkedin.com/in/isaacdiamond | github.com/isaacd9

Skills

Proficient: Go, Rust, JavaScript, SQL, Unix Systems Administration, Kubernetes, Shell, Git, MongoDB, AWS Familiar: Python, Java, C++, C, CSS3/HTML5, OCaml, PostgreSQL Administration, MySQL

Experience

Meter - Software Engineer - San Francisco, CA

Oct 2023 - May 2025

- Meter's first infrastructure-focused hire, responsible for supporting all of the company's AWS infrastructure, the core observability pipeline for Meter devices, and all of Meter's overall reliability, stability, and security.
- · Implemented a new observability pipeline for Meter's devices. This pipeline processes thousands of requests per second and 500GB of data per day, providing real-time insights into the health of devices. Wrote a Kafka-based data platform in Go to process and transform data from devices, powering nearly all functionality of the Meter dashboard and product.
- Led a team of three engineers to implement alerting for events on Meter's devices, based on the observability pipeline. This work automated away several hours of work for the support team per week, and delivered one of the most requested features for Meter networks.
- Identified and implemented improvements to Meter's general infrastructure, including introducing OpenTelemetry for distributed tracing and monitoring, deployed Prometheus for metrics collection, and Grafana for visualization, and migrated simple workloads from EC2 to ECS.
- Identified and onboarded a top-tier security consultancy. We worked together to implement a strategy for securing the company's infrastructure and product devices. Contributed to the backend infrastructure design for our secure boot implementation.
- · Designed the initial infrastructure for Meter Cellular, overseeing a team of contractors building out the infrastructure and cloud applications for a new neutral-host CBRS cellular product.

Stripe - Software Engineer - San Francisco, CA & Seattle, WA

Mar 2018 - Sep 2023

- Infrastructure engineer supporting Stripe's core compute platform, cloud networking, and high availability and disaster recovery. Scaled, maintained, and operated a Kubernetes cluster running scheduled jobs which moved substantially all of Stripe's money. Contributed to a compute platform to run web services on top of Kubernetes.
- · Built a control plane to deliver Envoy Proxy configuration to thousands of servers. Grew the Envoy data plane to process hundreds of thousands of requests per second. Used multiple times in every Stripe's API request and all online database traffic.
- · Founding member of the high availability and disaster recovery team, comprising some of the most trusted and experienced engineers at Stripe. Over the course of 18 months, we built a new disaster recovery system that allowed Stripe to run APIs and services across multiple physical regions and multiple countries. Regularly exercised the regional failover system against production traffic to ensure its reliability without impacting customers.
- Instrumented Stripe's core database libraries to determine when database operations were likely to cross regional boundaries. This work formed the core metrics to measure Stripe's ability to recover from a regional outage and run performantly in a multi-region configuration. Named on a patent for this work.
- Shaved hundreds of milliseconds off of the tail latency of Stripe's API by implementing a new architecture for routing Stripe API requests to the backend.

Facebook - Production Engineer Intern - Menlo Park, CA

Summer 2017

Intern on the Haystack/F4 team responsible for exabyte scale storage automation.

 Developed a new trash collector for Facebook's primary BLOB storage system reclaiming petabytes of space daily. Improved upon the existing trash collector by decreasing the runtime of the process from 15 hours to 20 minutes.

Squarespace - Software Engineering Intern (Site Reliability) - New York, NY

Summer 2016

Visa - Software Engineering Intern (Infrastructure Automation) - Foster City, CA

Summer 2015 Summer 2014

Haiku Deck - Software Developer Intern - Seattle, WA

Rover.com - Software Developer Intern - Seattle, WA

Summer 2013

Education