Oren Mazor

Toronto, Ontario, Canada
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Summary   A radically candid, creative software engineer with a strong cross-technology skill-set.

Looking for opportunities to leverage my existing skills in Site-Reliability Engineering, Performant design, and related DevOps work.

My goal is to ship fantastic products that make people's lives better.

Education   *Bachelor of Computer Science*, Class of 2006.
Concentration in Information Security
Minor in Business
Carleton University, Ottawa, Canada
Thesis: *"Practical Mitigation of Malicious Network Resource Consumers"*
Supervised by Dr. Anil Somayaji.

Research Topics   Observabilty, Incident Management, Network Security, Homelabs, Data Privacy, Capacity Planning.

Online   https://www.github.com/orenmazor
https://www.linkedin.com/in/orenmazor/

Qualifications   *Preferred Programming Languages*: Golang, Python.

Scripting: Python, Perl, Ruby, Lua.

Databases: PostgreSQL, MySQL, Redshift/HADOOP.

Platforms: Hashicorp stack (Terraform/Nomad), AWS (significant expertise), GCP, Digital Ocean.

Primary Professional Experience

1Password	Staff Production Engineer
Toronto, Canada	2022 - Present

- Led a team of production engineers in modernizing our observability infrastructure from disjoint tooling and into a uniform posture on Datadog. We encouraged the usage of scorecards, service catalog, and a variety of effort multiplying middleware to encourage tracing use.
- Published and prototyped RFD for a new Service-Oriented-Architecture platform built on top of K8s. This was a collaborative cross-engineering process, where I made sure to find a satisfying compromise for all teams. The end result is a product that can be easily onboarded by a team and provided automated CICD as well as observability with little to no need for K8s expertise. It was recently used as a CD target by all projects of a hackathon, as well as the basis of a linkerd strategy for uniform golden signals for deployed services.
- Managed and mentored SRE principles, golang engineering principles, and team topologies principles to my team as it matured into a team that provides enablement services to our engineering org.
- Provided technical leadership in site reliability engineering to a rapidly maturing engineering organization (from 50 to 500 engineers during my tenure).

1Password	Senior DevOps Engineer
Toronto, Canada	2019 - 2022

- Prototyped a grey labelling approach of the cloud platform from AWS and into a private data center for our clients, moving our main workloads from virtual machines and into openshift.
- Built a PII preserving datalake on AWS Athena that ingests from a variety of global data centers using Pandas and AWS Batch. I built two parallel frontrooms, Metabase for engineers, and Looker for GTM teams.
- Built and staffed out a BI team on top of the datalake to provide business services to users.

Vium   Senior DevOps Engineer
San Mateo, California (Remote)   2018 - 2020

- Focus on developer happiness (migrated CICD infrastructure from Jenkins to Gitlab)
- Supported a variety of computer vision, machine learning, and spark cluster stacks. This included working on individual jobs, maintaining cluster provisioning, and introducing a variety of performance analytics tools.
- Created a tool for building customizeable AWS stacks using Troposphere and CloudFormation, including databases on RDS, custom Dockerfiles, and a variety of cloudwatch and SQS alarms.

ReCharge Payments   Devops Lead
Santa Monica, California (Remote)   2016 - 2018

- Introduced and managed CI/CD processes.
- Worked on dockerizing the codebase and migrated the infrastructure from an adhoc deploy supervisorctl/runit method to a dockerized cluster managed on Digital Ocean. Prototyped ECS/EKS orchestration alternatives.
- Implemented SRE principles to monitor security and performance on a variety of services provided to merchants and customers using modern industry standards (statsd, newrelic, pagerduty).
- Worked on preparing the infrastructure for the throughput required for BFCM. Implemented a variety of strategies for improving throughput and managing complex business logic flows that are externals bound through safe failover mechanisms (e.g. Stripe, Avalara, UPS, Shopify).
- Implemented a backgrounding mechanism based on Python's RQ, heavily inspired by Sidekiq/Resque and several other AMQP mechanisms. Added exponential and a variety of LRU backoff strategies to accomodate external resource throttles.
- Built several core product features from prototype to fully functional core tools, used by thousands of merchants and customers.

Rarelogic   Lead Platform Developer
Ottawa Canada   2015-2016

Shopify   Site Reliability Engineer
Ottawa Canada   2012 - 2015

Wildbit   Software Developer
Ottawa Canada   2011 - 2012

OneChip Photonics   Software Developer
Ottawa Canada   May 2009 - Present