

# Atsushi Yamamoto

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## Skills

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### Programming languages

Bash | Python | Ruby | Go | JavaScript | Java | C | HTML | CSS | SQL

### Technologies

Kubernetes | Linux | Bazel | Docker | Terraform | Datadog | Prometheus | Buildkite | PostgreSQL | AWS | GCP

## Experience

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**Etsy** — San Francisco, California

Jun 2021 - Present

*Senior Software Engineer, SRE, Search Platform*

- Spearheading an ongoing initiative to transition from GKE cluster-wide to individual service deployments for the Bazel monorepo, with an aim for faster deployments and the removal of cluster scale ups/downs.
- Led cross-team build infrastructure modernization, migrating rules\_k8s to Skaffold and rules\_docker to rules\_oci across monorepo of 60 services, unblocking critical JDK 21 and Bazel 7 upgrades.
- Implemented multi-version Python support in monorepo, refactoring dependency import system and enabling teams to independently upgrade from 3.9 to 3.11.
- Optimized Prometheus by achieving 20% metrics volume reduction and coordinating across teams to remove high-volume, unused metrics, saving \$250,000 annually in storage costs.
- Migrated dev environment Solr index replication services to Spot VMs, saving \$200,000 in annual costs.

**Stitch Fix** — San Francisco, California

Sept 2019 - May 2021

*Platform Engineer, Runtime Infrastructure*

- Managed an internal Platform as a Service (PaaS) for 150 services on ECS with 400 deployments per day.
- Pioneered Datadog cost management by developing a usage dashboard and rearchitecting metrics to distinguish between app-specific and shared library metrics, enabling teams to optimize independently.
- Eliminated outages from accidental deployments following service rollbacks by implementing a deployment freeze feature in the PaaS deployment system.
- Improved Docker build speed across all images on CodeBuild by 15% using an external build cache.

**Stitch Fix** — San Francisco, California

May 2018 - Aug 2018

*Software Engineering Intern*

- Built a service to manage purchase orders from external vendors, streamlining the process of documenting product details, quantities, payment terms, and delivery information.
- Improved contract testing workflow between multiple microservices with Pact.

**Ubysey** — Vancouver, British Columbia

Oct 2017 - Apr 2018

*Web Developer*

- Developed a website in Django and an in-house publishing tool in React for the student-run newspaper.
- Coordinated workloads and gave technical workshops to onboard student volunteers.

**BlackBerry** — Ottawa, Ontario

Jan 2017 - Aug 2017

*Student Development Intern*

- Developed an Azure cost thresholds management and forecasting dashboard in Ruby on Rails.
- Implemented a deployment and approval management service for hypervisors in the OpenNebula clusters.

**Prynt** — San Francisco, California

Jun 2016 - Dec 2016

*Web Development Intern*

- Implemented an international PayPal payment option for the Ruby on Rails e-commerce website checkout.
- Created a recommendation feature to fetch suggestions based on items in the cart using React and Redux.

## Education

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**University of British Columbia** - Vancouver, British Columbia

Sept 2014 - May 2019

*Bachelor of Commerce, Business and Computer Science*