

# Jeffrey Fei

Infrastructure Engineer

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## Skills

**Languages:** Bash, Go, Java, C, C++, Python, Ruby, JavaScript

**Technologies:** AWS, Jenkins, Docker, Terraform, Cloud-init, Packer

**Databases:** MySQL, PostgreSQL, Redis

## Employment

### Salesforce

Infrastructure Engineer Intern | May 2018 to Aug 2018, Jan 2019 to Dec 2019 | San Francisco, CA

- Designed and implemented DB migration pipeline to migrate data from Oracle DB to Salesforce DB
- Created a monitoring service for DB migration to detect and recover from errors
- Implemented Terraform pipelines that provision DB clusters on demand in under 15 minutes
- Developed an updater service that performs zero downtime upgrades on services within the DB cluster
- Automated AMI generation with Packer to generate AMIs with the latest service binaries
- Developed a new deployment process that enables private Jenkins servers to deploy to public EC2 instances
- Automated the creation of a dockerized testing environment over EC2 instances using Terraform
- Utilized VPC Private Link to allow public EC2 instances to access private Nexus server repository

### Shopify

Developer Intern | Sept 2017 to Dec 2017 | Waterloo, ON

- Implemented a real time event multiplexing service in Go to relay customer orders to Shopify Launchpad
- Refactored an event multiplexer which reduced duplicating order events relayed to the clients by over 60%
- Prototyped a scalable webhooks handler in Rails for Shopify's future product content management application

### SMART Technologies

Software Developer Intern | Jan 2017 to Apr 2017 | Calgary, AB

- Designed SMART LAB's web migration that allows users to launch SMART LAB in SLSO
- Implemented a new login flow in SMART LAB to allow subscription based user access control
- Created a dialogue system that monitors and informs the user on the running status of LAB activities

### Dell EMC

Software Engineer Co-op | May 2016 to Aug 2016 | Burlington, ON

- Improved build analytics by implementing a service to process real time build machine data with Node.js
- Implemented Python scripts to automate inactive owner reassignment over Coverity
- Automated Purify log imports in Coverity which enables stack tracing of outstanding memory issues

## Education

### University of Waterloo

Bachelor of Software Engineering