

BENJAMIN CALDWELL

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📧 University of Waterloo Systems Design Engineering 2019

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Skills

- **Infrastructure:** Docker, Kubernetes, Minikube, Ansible, Puppet, NGINX, Linux, CI Systems
- **Languages:** Ruby, Go, Javascript, HTML, CSS (Less & Sass), Python, Bash
- **Technologies:** Ruby on Rails, Splunk, Spark, Kafka, MongoDB, Vue.js, SQL, Git

Experience

 **Salesforce Infrastructure Engineering Intern** Seattle, Washington | Sept 2017 - Dec 2017

- Built a **log collection, aggregation, and visualization pipeline** using Kafka, Spark, and Splunk and deployed to thousands of machines using Puppet
- **Autonomously classified and identified log patterns** in logs to power a triage and repair engine using a Spark job
- **Filed for a patent** based on innovations made in autonomous detection of machine hardware failures

 **Shopify Production Engineering Intern** Ottawa, Canada | Jan 2017 - April 2017

- Developed features and fixed bugs for a **Ruby on Rails** application that detects and monitors hundreds of services
- Designed and built a system to **track thousands of dependencies** and notify service owners regarding critical updates
- Led an effort to prototype a system to **automatically update** Ruby Gems
- Extended an existing tool to run **services in Kubernetes** during development using Minikube

 **Shopify Data Applications Intern** Ottawa, Canada | May 2016- Aug 2016

- Worked on an internal data visualization tool used by analysts and executives written in Ruby on Rails
- Improved data discovery by **rewriting search functionality** and **implemented data model relationship graph generation**
- Integrated iPython notebooks to natively display reports

 **MAJK Systems Software Developer Intern** Waterloo, Canada | Sept 2015 - Dec 2015

- Developed real-time factory production monitoring by creating core modules, using Backbone Marionette framework
- Minimized overlapping API calls by designing and implementing a **front-end caching layer**

 **MAJK Systems Software Developer Intern** Waterloo, Canada | Jan 2015 - May 2015

- Architected a shift productivity dashboard and a module that allow operators to input work completed

Personal Projects

- **Devctl:** A Go CLI that automates developer environments using **Docker containers**
- **Kubernetes Init:** Collection of **Ruby scripts** and **Ansible playbooks** to automate the Kubernetes cluster setup process
- **Remarkr:** Social platform which recommends Internet content based on content with which friends read and interact
- **Pebble Notify Me:** Developed a notification system that delivers time based notification to a pebble user

Interests

- Viola, soccer, basketball, photography