

# Liz Frost

liz@stillinbeta.com | stillinbeta.com | Vancouver, BC, Canada

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## EXPERIENCE

### **Buzzfeed**

February 2020 to December 2022

*An internet media, news, and entertainment company*

buzzfeed.com

**Staff Software Engineer, February 2020-December 2020**

**Principal Software Engineer, December-2020-December 2022**

- > Served on Diversity Council, advising on equity in hiring and internal advancement
- > Lead reimplementation of internal PaaS onto Kubernetes
- > Participated in Oncall and internal support rotation
- > Developed new documentation and runbook framework for all internally operated services
- > Tech lead and primary maintainer on ingress pipeline with 1000s of requests per second of HTML traffic

### **VMware (through Heptio acquisition December 2018)**

November 2017-December 2019

*A Kubernetes sales and support company*

vmware.com

**Software Engineer, November 2017-December 2018**

**Member of Technical Staff, December 2018-December 2019**

- > Authored comprehensive integration test framework for the AWS Cluster API provider, which allows Kubernetes to manage the hosts it's running on
- > Coordinated development on Kubeadm and Cluster API between employees at VMware, other companies, and hobbyist contributors
- > Wrote documentation for new Cluster API, Kubeadm and Sonobuoy features, interfacing with staff technical writers
- > Created new engineer-focused CLI for Sonobuoy, the tool used to certify Kubernetes clusters for all organizations participating in the Certified Kubernetes program
- > Reviewed, made suggestions to, and approved community contributions to Sonobuoy and Cluster API

### **Heroku (subsidiary of Salesforce.com)**

June 2014 - September 2017

*A leading Platform-as-a-Service provider*

heroku.com

**Associate Member of Technical Staff, June 2014 - February 2015**

**Member of Technical Staff, February 2015 - February 2016**

**Senior Member of Technical Staff, February 2016 - September 2017**

- > Quickly familiarized myself with and became productive in dozens of diverse codebases in multiple new-to-me languages (Ruby, Coffescript, Go, Erlang)
- > Participated in 24/7 oncall rotation for high-impact like the HTTP router services with sub-5 minute response SLAs.
- > Diagnosed and coordinated responses to complex outages of the Heroku Router, scheduling control plane, and container runtime fleet across multiple people and teams
- > Developed secure certificate management system to launch with Heroku automated certificate management solution

### **Demonware**

July 2012 - September 2013

*Activision studio providing online infrastructure for multiplayer video games*

demonware.net

**Software Engineer, Systems Engineering (Co-op)**

- > Helped design, author, deploy, and support internal IaaS project that drastically reduced datacentre buildout effort
- > Maintained and updated metrics capability and infrastructure
- > Credited in several AAA video games, including *Diablo III* and multiple *Call of Duty* installments

## EDUCATION

### University of Toronto

August 2010 - May 2014

#### Honours Bachelor of Science

- > Computer Science Specialist
  - > Writing and Rhetoric Minor
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## PERSONAL PROJECTS

### is31f3741

Rust driver for Driver for Lumissil Microsystem's IS31FL3741 LED drivers

- > <https://github.com/stillinbeta/is31f3741/>

### friendshipismonadic

Haskell interpreter for esoteric language Friendship is Monadic

- > Use parsec and Hedgehog property tester
- > <https://github.com/stillinbeta/friendshipismonadic>

### zeerust

z80 machine-code emulator written in Rust

- > Core emulator and web-assembly version in Yew
- > <https://github.com/stillinbeta/zeerust>
- > <https://zeerust.stillinbeta.com/>

### yooper

UPNP implementation and scanner written in Rust

- > <https://git.sr.ht/~liz/yooper>

### Github

- > <https://github.com/stillinbeta>

### Sourcehut

- > <https://git.sr.ht/~liz/>
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## TALKS

More at <https://stillinbeta.com/talks>

### Kubernetes from a Cake Mix

March 2019

*A guided tour through the internals of a Kubernetes cluster using Kubeadm as a cheat sheet*

- > Given at SRECon Americas 2019
- > Slides: <http://bit.ly/liz-slides3>
- > Code: <http://bit.ly/liz-code3>

### Postgres! Plays! Pokemon!

February 2019

*We hook Postgres up to a Gameboy Emulator. What mischief can we do now?*

- > Given at the inaugural BangBangConWest 2019
- > Slides: <http://bit.ly/liz-talk5>
- > Code: <http://bit.ly/liz-code5>

### Kubeadm Deep Dive

December 2018

*The internals of Kubeadm, a tool for bootstrapping clusters*

- > Given at Kubecon North America 2018
- > Recording: <http://bit.ly/liz-talk6>
- > Slides: <http://bit.ly/liz-slides6>