**Skills**

* **Languages/Frameworks:** Go, Ruby, Rails, C, C++, Python, Java
* **Technologies/Tools:** Docker, Kubernetes, MySQL, Git, Datadog, Splunk, AWS, GCP

**Experience**

**Shopify — Production Engineer Intern May 2020 – April 2021**

* Responded to multiple incidents as member of 24-hour Database Connection Management on-call rotation
* Led project to dynamically manage ProxySQL query rules for easier incident response, read more [here](http://shopify.engineering/dynamic-proxysql-query-rules)
* Mitigated client errors caused by ProxySQL deploys by over 50% and reduced deploy times by over 1 hour
* Developed solution to specify image versions when deploying ProxySQL with a Kubernetes custom resource controller, leading to safer rollouts of new versions and the ability to prototype
* Created prototype MySQL Admission Control plugin to protect databases from overload, along with guaranteeing capacity for high priority queries using C++, and Sysbench for benchmarking
* Implemented core features for Shopify’s custom Horizontal Pod Autoscaler using Go and Kubernetes

**Shopify — Backend Developer Intern September – December 2019**

* Developed core features and optimizations for Billing Service using Ruby on Rails
* Implemented idempotency in GraphQL mutations to prevent charges from occurring multiple times along withadding Datadog metrics and Splunk logging to improve observability
* Applied load shedding solution to reduce overload risks by delaying jobs if Billing Service had too much load
* Refactored code to facilitate sharding by restructuring queries, leading to performance improvements including reducing one daily job’s running time from 9 hours to 15 minutes

**TextNow — Software Developer Intern January – April 2019**

* Created scalable microservice to initiate and monitor port requests along with designing a service layer to communicate and handle callbacks from third party APIs using Ruby on Rails
* Implemented job queuing using Sidekiq and Redis to increase port request completion rates
* Automated deployment process of porting service to AWS Elastic Kubernetes Service using Docker, Jenkins, and Kubernetes to allow scalability and effortless updates without downtime
* Utilized Terraform to build and version control AWS infrastructure such as RDS and Elasticache

**Symantec — QA Automation Engineer Intern May – August 2018**

* Developed application to generate reports for Norton Secure VPN reviews from the App and Play Stores
* Trained machine learning model to perform Multi-Label Text Classification on reviews using Python, Natural Language Processing, and sci-kit learn to achieve 85% accuracy

**Projects**

**StoryTime |** [**https://github.com/rrangith/StoryTime**](https://github.com/rrangith/StoryTime)

* Finalist at Hack the Valley 2019 with web app that takes user speech and generates images
* Automated deployment to Google Kubernetes Engine using TravisCI

**RealTalk |** [**https://github.com/rrangith/RealTalk**](https://github.com/rrangith/RealTalk)

* Won 1st at DeltaHacks 2019 with web app that gives users real-time feedback on presentations
* Developed multi-threaded Flask API to analyze and track facial expressions and hand gestures using OpenCV

**Education**

* University of Waterloo, 4A Computer Engineering **September 2017 – April 2022**