**Skills**

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

**Experience**

**Datadog — Software Engineer II July 2022 – Present**

* Engineering features for Compute team using Go to support a scalable, multi-cloud Kubernetes platform
* Designed and implemented Kubernetes custom controller to dynamically select and manage instance types, which led to saving millions in cost, enhanced resiliency with fallback instances, and reduced manual toil
* Contributed open source features and bug fixes to Kubernetes and Cluster Autoscaler, see changes [here](https://github.com/search?q=org%3Akubernetes+author%3Arrangith+is%3Amerged+&type=pullrequests)
* Analyzed storage usage and migrated thousands of nodes from local to remote storage, saving 10% in costs
* Successfully mentored intern through assigning tasks in increasing difficulty and giving actionable feedback

**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, streamlining 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
* 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

**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
* Applied load-shedding solution to reduce overload risks by delaying jobs if Billing service had excessive load
* Restructured code and MySQL queries to facilitate sharding, with performance improvements up to 97%

**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, achieving 85% accuracy

**Projects**

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

* Won 1st place 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, BASc Computer Engineering, 89.39% GPA **September 2017 – April 2022**