

# Rahul Rangith

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## 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](#)
- 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](#)
- 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>**

- Won 1<sup>st</sup> 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, BSc Computer Engineering, 89.39% GPA

**September 2017 – April 2022**