Rahul Rangith

rangith.com | linkedin.com/in/rrangith | github.com/rrangith | rahulrangith@hotmail.com

Skills

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

Experience

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

- Promoted twice from Software Engineer → Software Engineer II → Senior Software Engineer over 3.5 years
- 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 saved millions in cost, enhanced resiliency with fallback instances, and reduced manual toil
- Delivered presentation on saving costs with cluster autoscaling to hundreds of attendees at *Kubecon EU 2025*
- Actively contributing features and bug fixes to Kubernetes and Cluster Autoscaler as a Kubernetes Organization member, including a patch resolving Pods stuck in Pending state due to missing PVCs
- Analyzed storage usage and migrated thousands of nodes from local to remote storage, saving over 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, with frontend in React
- 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 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**