Rahul Rangith

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Skills

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

Experience

Shopify — Production Engineer Intern   **Summer 2020**
- Performed key operational and development work on the Capacity and Database Platform teams
- Developed 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, such as preventing underscaling as well as simplifying the app onboarding process using Go and Kubernetes

Shopify — Backend Developer Intern   **Fall 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 with adding 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, leading to a 100% increase in the service's bandwidth
- 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   **Winter 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   **Summer 2018**
- Developed application to aggregate and generate daily reports for Norton WiFi Privacy reviews from the App Store and Play Store using Python, Slack API, and Jenkins
- 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
- Finalist at Hack the Valley 2019 with web app that takes user speech and generates images
- Automated deployment to Google Kubernetes Engine using TravisCI to push Docker images along with creating and updating Kubernetes resources on updates to master branch
- Developed Flask API to perform text to image conversion using Bing's Image Search API

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 and pretrained machine learning models

Education

- University of Waterloo, 3B Computer Engineering   **September 2017-April 2022**