Rahul Rangith

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Skills

- **Languages/Frameworks:** Ruby on Rails, Python, Flask, C, C++, Java, JavaScript, React, GraphQL
- **Technologies/Tools:** Docker, Kubernetes, AWS, GCP, Heroku, MySQL, PostgreSQL, Git, Jenkins, TravisCI

Experience

Shopify — Backend Developer Intern   **September-December 2019**
- Implemented idempotency for all of Billing Service's 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 DDoS risks by delaying idempotent jobs if Billing Service had too much load, leading to a 100% increase in the maximum requests per minute the service could handle
- Refactored code to facilitate sharding by restructuring queries and ensuring proper shard selection leading to performance improvements including reducing one daily job's running time from 9 hours to 15 minutes
- Migrated REST requests to GraphQL leading to removal of Single Table Inheritance associations

TextNow — Software Developer Intern   **January-April 2019**
- Created scalable microservice to initiate and monitor users' port requests along with designing a service layer to communicate and handle callbacks from third party APIs using Ruby on Rails and MySQL
- Implemented job queuing and retry logic 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
- Improved UI and created new features for customer management portal using React and Ruby on Rails

Symantec — QA Automation Engineer Intern   **April-August 2018**
- Developed application to aggregate and generate daily reports for Norton WiFi Privacy reviews from the App Store, Play Store, and Opinion Lab 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
- Implemented daily UI tests for iOS and Android using Jenkins, Swift, and Java to increase code coverage by greater than 50% on both platforms

Projects

StoryTime | https://github.com/rrangith/StoryTime
- Finalist at Hack the Valley 2019 with web app that takes user speech as input to generate related 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
- Applied filters to search based on sentiment analysis and user's facial expressions using Google Vision API
- Deployed multi-container application to Ubuntu VPS using Docker, Docker-Compose, and Nginx

RealTalk | https://github.com/rrangith/RealTalk
- Won 1st place at Delta Hacks 2019 with web app that gives users real-time feedback on presentations
- Developed multi-threaded Flask API to analyze a user's facial expressions, hand gestures, and word choice
- Utilized OpenCV and pretrained machine learning models to track hand movements and facial expressions
- Ensured stable production environment by automating Heroku deployments and unit testing using TravisCI

Education

- University of Waterloo, 3A Computer Engineering, 3.9 GPA   **2017-2022**

Activities and Interests

- Avid NHL follower and Toronto Maple Leafs fan, played Ice Hockey from 2009-2017
- Black Belt in Taekwondo and competed in multiple sparring tournaments
- Hobbies: Juggling, Magic, Travelling (10+ countries)