

# Rahul Rangith

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## Skills

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

## Experience

### Shopify — Backend Developer Intern

September-Present 2019

- Currently using Ruby on Rails to improve billing performance and experience for thousands of merchants

### 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 1<sup>st</sup> 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

### Heartful | <https://github.com/rrangith/Heartful>

- Collaborated with team at Hack the North 2018 to create Fitbit application that protects users from stress
- Developed Rest API to relay data between frontend and **PostgreSQL** database using Python and Flask
- Utilized Twilio API to send text messages based on the user's situation
- Integrated Google Maps API to create heat map of user's stressful areas based on data collected

## 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)