

# Rahul Rangith

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## Skills

- **Languages/Frameworks:** Python, Flask, Ruby, Rails, JavaScript, Node.js, Express, React, Java, C/C++
- **Technologies/Tools:** Docker, Kubernetes, AWS, GCP, Heroku, MySQL, PostgreSQL, Git, Jenkins, Travis CI

## Experience

### TextNow — Software Developer

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 EKS** using **Docker**, **Jenkins**, and **Kubernetes** to allow scalability and effortless updates without downtime when the master branch is updated
- 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

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 **Travis CI** to push **Docker** images along with creating and updating **Kubernetes** resources when the master branch is updated
- Developed **Flask** API to accept string and used Bing's Image Search API to return a corresponding image
- 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

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

- Collaborated with team at Hack the North 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

### FaceRecognizer | <https://github.com/rrangith/Face-Recognizer-Api>

- Developed web application that detects a face in an image by utilizing the **Clarifai API**
- Built backend server using **Node.js** and **Express** to relay database and API calls between frontend
- Stored data in a **PostgreSQL** database to implement secure registration and sign in features
- Designed a clean and responsive UI using **React** and published final product to **Heroku**

## Education

- University of Waterloo, *Computer Engineering*

2017-2022

## Activities and Interests

- Avid NHL follower and Toronto Maple Leafs fan, played Ice Hockey from 2009-2017
- World Taekwondo Federation Black Belt and competed in multiple sparring tournaments