

Rahul Rangith

rangith.com | linkedin.com/in/rrangith | github.com/rrangith | rrangith@edu.uwaterloo.ca

Skills

- **Languages/Frameworks:** Python, Java, C/C++, React, Node, Express, PostgreSQL
- **Technologies/Tools:** Git, Jenkins, Jira, Docker, Heroku, AWS, macOS, Ubuntu

Work Experience

QA Automation Engineer — Symantec

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
- Utilized **Docker** to containerize **Ruby on Rails** web application to track company test devices
- Developed script to reformat and transfer 300+ Jira tickets between projects using **Python** and **Jira API**
- 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

Face Recognizer | <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** 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**

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**
- Implemented **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

Movie Review Classifier (Ongoing) | <https://github.com/rrangith/movie-review-classifier>

- Trained model to predict sentiment of movie reviews using **Python** and **scikit-learn** with 92% accuracy
- Deployed model as serverless microservice using **Flask**, **AWS Lambda** and **API Gateway**
- Utilized **AWS S3** to store and access the prediction model without having to train it multiple times

BOM Organizer & AMS Output | <https://github.com/rrangith/BOMOrganizer>

- Automated error checking and simplification of Bills of Material in Excel and CSV formats, currently saving Broy Engineering's Production Engineer an average of 5-7 hours per week
- Applied Object Oriented Design to store types of data and create an organized and user-friendly GUI
- Performed reading and writing to Excel files in **Java** by utilizing the **Apache POI API**

Crypto Monitor | <https://github.com/rrangith/Cryptomonitor>

- Programmed an embedded system which displays up-to-date price data on a Bitcoin and Ethereum
- Implemented File I/O through a Binary file in order to store past price information of each currency while also saving space on Onion Omega2 microcontroller
- Wrote and compiled cross-platform **C++** code using Ubuntu virtual environment

Education

- University of Waterloo, *Computer Engineering*

2017-2022

Activities and Interests

- Avid NHL follower and Leafs fan, played Ice Hockey from 2009-2017
- World Taekwondo Federation Certified Black Belt and competed in multiple sparring tournaments
- Engineering tutor for Linear Algebra, Calculus, and Chemistry
- Ambassador for University of Waterloo Engineering Department