

# Prakhar Rawat

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## Technical Skills

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**Languages:** Python, Go, Java, Ruby, C++, Scala, Groovy, HCL

**Testing Libraries, Frameworks, CI, Build System:** Kubernetes, Helm, Docker, Terraform, Vagrant, Chef, Ansible, GCP, GKE, NGINX Ingress controller, Jenkins, Artifactory, Consul, RabbitMQ, XCode, Packer, Watir, Selenium

## Software Engineering Projects

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### Flask Up

<https://github.com/prakharr/flask-up>

A sample python flask application deployed using wsgi on a VM using Vagrant with environment setup by Ansible provisioning

- Defined multiple roles for ansible to run the sample application(Python, gunicorn, nginx)
- Used nginx conf template to populate the roles and tasks
- Used Gunicorn for gateway interface server

### Rest Application

[https://github.com/prakharr/helm\\_k8s](https://github.com/prakharr/helm_k8s)

A Python-flask REST API based application which uses native Ingress as load balancer service deployed using helm

- Used docker's local k8s cluster and implemented the service as ClusterIP
- Developed a health check on the service replicas
- Implemented Helm charts with replica sets with readiness and liveness probes
- Implemented auto pushing the binary to chartmuseum and using dev version of the helm chart

## Professional Experience

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Aug 2018 - May 2019

**Sauce Labs**

San Francisco, CA

### DevOps Intern

Member of the internal-tools tiger team building an improved an efficient deployment pipeline migrating to public cloud

- Worked on the headless browser implementation which help companies shift left and catch bugs earlier in the pipeline
- Decoupled services from a monolithic architecture and automated their deployment process
- Worked on wrapper methods for deploying/reaping clusters in GKE using **terraform**
- Maintainer of the local development parent helm chart and designed its ingress controller in nginx to respective services
- Configured chef node pools in GCE preemptible VM instances to withstand fault tolerance in public cloud
- Switched to **nginx** from traefik as the default load balancer to proxy the assets to an S3 bucket
- Implemented **prometheus** monitoring and alerting post deployment
- Implemented POC on switching from **helm** to helmfile to use concurrent **kubernetes** deployments

June 2018 - Aug 2018

**Sauce Labs**

San Francisco, CA

### Open Source Intern

[https://github.com/watir/tap\\_watir](https://github.com/watir/tap_watir)

A test automation framework built in Ruby using Watir Api which automates user interactions on mobile devices

- Created an automation framework for mobile applications using open source frameworks Selenium, Appium, and Watir
- Developed a wrapper for Watir API to extend the support for iOS and Android devices
- Pushed changes to selenium and appium which helped reduce obscure issues

January 2016 - June 2016

**Buzz4health**

New Delhi, India

### iOS Developer Intern

An iOS Application made which displays a random fact every time the user opens the app. Added the ability to enhance image

- Integrated the Facebook and Gmail login OAuth workflow to simplify the process of sign-up
- Used a third party MKNetworkKit API to make a single queue for the application and to remove image cache dependency
- Created XCTestests for the app to help improve the code coverage upto 79%

## Education

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Master's of Science in Software Engineering **Rochester Institute of Technology, NY**

Graduating May 2020