

# Prakhar Rawat

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## Technical Skills

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

**Testing Libraries, Frameworks, CI, Build System:** Kubernetes, Helm, Docker, Terraform, Packer, Consul, Vagrant, Chef, Ansible, GCP, GKE, AWS, Nginx, Jenkins, Artifactory, RabbitMQ, AMQP, XCode, 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 artifacts 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 Engineer Intern

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

- Decoupled services from a monolithic architecture and automated their deployment process as a micro-service
- 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 through slack bots
- Implemented POC on switching from helm to **helmfile** to use concurrent **kubernetes** deployments in production

June 2018 - Aug 2018

**Sauce Labs**

San Francisco, CA

### Open Source Developer 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 for the medical community to meet the needs of medical community and standards.

- Integrated the Facebook and Gmail login OAuth workflow to simplify user sign ups
- Used MKNetworkKit queued requests and background caching
- Created XCTests 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