

Prakhar Rawat

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Technical Skills

Languages: Python, Go, Java, C++, Scala, Groovy, Objective-C, Swift, Nodejs

Testing Libraries, Frameworks, CI, Build System: Kubernetes, Helm, Docker, Terraform, Kafka, Cassandra, Consul, Chef, Ansible, GCP, GKE, AWS, Nginx, Jenkins, Artifactory, RabbitMQ, AMQP, XCode, Watir, Selenium

Software Engineering Projects

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

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

- Used **docker's** local **kubernetes** 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

Professional Experience

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

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

January 2016 - June 2016

Buzz4health

New Delhi, India

iOS Developer Intern

An iOS Application made for the medical community to meet the needs of the medical community and standards.

- Integrated the Facebook and Gmail login OAuth workflow to simplify user sign ups
- Used **MKNetworkKit** queued requests and background caching
- Implemented background image decompression to reduce data usage
- Created **XCTests** for the app to help improve the code coverage upto 79%
- POC on integrating **Masonry** to wrap **iOS** Layout constraints to achieve maximum readability

Education

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

Graduating May 2020