# **Prakhar Rawat**

San Francisco, CA | (669) 294-0492

prakharsens@gmail.com | linkedin.com/in/prakharrr | github.com/prakharrr

### **Technical Skills**

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

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

### **Software Engineering Projects**

### **Visual Regression Tool (Hackathon Project)**

https://github.com/saucelabs/hackathon-visualregression

Built a tool that used semantic image segmentation which identifies and compares screenshots to define/update the baseline

- Used a tensorflow model, deeplab, to assign the semantic labels that the tool identifies
- Leveraged a custom model to convert the dataset to a tensorflow compatible protobuf record
- Connected the model with a node server to show the difference

#### **Rest Application**

https://github.com/prakharrr/SampleApplication

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

- Defined a local cluster using minikube which implements a service using ClusterIP
- Developed a health check on the deployed replicas
- Implemented Helm charts with replica sets with readiness and liveness probes
- Implemented auto pushing the binary to chartmuseum and using that dev version
- Implemented POC on switching from helm to helmfile to use concurrent kubernetes deployments

## **Professional Experience**

Aug 2018 - Present Sauce Labs

San Francisco, CA

### Software Engineering Intern [Platform Engineering]

Member of the internal-tools tiger team building an improved and efficient deployment pipeline the kubernetes way

- Worked on the headless browser team which goes live in SauceCon
- Separated 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

June 2018 - Aug 2018 Sauce Labs San Francisco, CA

#### Open Source 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 like 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 XCTests for the app to help improve the code coverage

#### **Education**