

Danish Khakwani

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Profile

Highly motivated Engineer with six years of industry experience in Software Development and Operations. I have the thirst of knowledge and I carry a mindset of improving myself and the others who I work with.

Computer Skills

- Languages: Python, Bash, Go, Groovy, JavaScript
- Database Systems: MySQL, PostgreSQL, Amazon DynamoDB
- Operating Systems: Linux, Unix and Windows
- Web: Flask, React, Serverless APIs
- Other Tools: Terraform, Kubernetes, Spinnaker, ArgoCD, Git, Gitlab CI, Jenkins, Maven, Gradle, Puppet, Ansible, Vagrant, Amazon Web Services (AWS), Google Cloud Platform (GCP)

Work Experience

Senior Site Reliability Engineer

Jul 2021 – Present

Urbint

- Setup and maintain cloud infrastructure on Google Cloud
- Work closely with Development teams to implement scalable, reliable, and cost-effective architecture
- Adopt and implement GitOps principles for continuous deployment
- Implement monitoring and alerting for cloud infrastructure and software products

Site Reliability Engineer

Jun 2020 – Jul 2021

Change Healthcare, Canada

- Working with the development team to define and implement monitoring metrics for the software solution to meet service level objectives in production system
- Automating tasks that are required to be performed on a regular basis
- Monitoring infrastructure in Google Cloud to be compliant based on set of custom rules set
- Responsible for incident management and organizing post-mortems for the incidents
- Setup and maintain cloud infrastructure on Google Cloud

DevOps Engineer

Jan 2018 – May 2020

Samsung Electronics, Canada

- Designing, creating, and maintaining automation jobs in CI systems
- Setup and maintain identity and access management solution
- Setup and maintain cloud infrastructure on AWS

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- Securing infrastructure access and meeting compliance requirement by making user actions auditable
- Creating continuous delivery pipelines
- Container orchestration using Kubernetes
- Setting up infrastructure alerts via DataDog
- Logging application and infrastructure events to SumoLogic

DevOps Engineer Intern

May 2017 – Dec 2017

Samsung Electronics, Canada

- Setup and manage AWS infrastructure using Terraform
- Setup Continuous Integration and Delivery pipelines for various Samsung projects
- Used Consul Key/Value store to dynamically generate application configuration files using consul-template
- Built images/snapshots of systems using Packer
- Configuration management using Ansible

DevOps Engineer Intern

May 2016 – Aug 2016

Samsung Electronics, Canada

- Setup and support Continuous Integration and Continuous Delivery for Samsung Pay, Samsung Knox, Samsung IoT Cloud, and other related projects
- Participate in projects which includes working with Jenkins, Gitlab-CI, Docker, Python, BASH scripting, Go, Git, Perforce, Ansible, Linux
- Heavily utilizing Amazon Web Services (EC2, SQS, EMR, RDS, S3, Redshift, KMS, DynamoDB, Lambda) for projects
- System Configuration Management using Ansible, and managing infrastructure using Terraform
- Build automation using Maven and Gradle
- Supporting setup of tools such as Elasticsearch, Logstash, Kibana, Kafka, Spark, Zookeeper, Nagios, Dynatrace

Software Tools and Automation Developer Co-op

May 2015 – Dec 2015

BlackBerry, Canada

- Setup and support Continuous Integration and Continuous Delivery
- Participated in projects which include working with Jenkins, Gerrit, Groovy, Shell and BASH scripting, Git, Linux
- Automating Linux and Windows system configuration using Puppet
- Server Orchestration using MCollective with RabbitMQ as a message queue
- Build automation using Maven and Gradle

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- Setup a private Docker registry, setting up SSL certificates for the registry, and connecting the registry with LDAP using Nginx as a reverse proxy

Software Developer Co-op

Sep 2014 – Apr 2015

Ericsson, Canada

- Used agile methodology for software development
- Participated in projects which include working with database development using PostgreSQL, Continuous Integration using Jenkins, Gerrit, Perl, Python, Git, Linux/Unix
- Developed a web-application using Go language and Martini framework
- Operational support including end user support, root cause analysis and defect resolution
- Involvement in software development process (Agile planning/sprints, collaboration, design sessions and code reviews)

Academic Projects

- EventHub (Language: Python, Framework: Django, Other tools: Docker, Vagrant)
 - A web-application where people with shared interest can host and attend events. The following points describe what my role was.
 - Implemented user registration, events creation, invites notification, chat application, and integrated Google Maps
 - Dockerized application and used Docker compose to group Nginx, PostgreSQL, Redis and Django application containers
 - Setup priorities for the project and used Trello for tickets management
- Streamlined Grading System (Language: C++, Application framework: QT)
 - A GUI based system consisted of users with various functionalities
 - The core functions were to manage accounts, creation of courses and activities, adding students to the courses and grading their submitted work
 - MS SQL DBMS used to store the records

Education

- **BSc. In Computing Science**
Simon Fraser University, Canada

Jan 2012 – Dec 2017

Certifications

- **AWS Solutions Architect Associate**
- **Pagerduty Certified Incident Responder**

June 2020

Oct 2020