SHUBHAM KUMAR

DevOps Engineer

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EXPERIENCE

Senior Site Reliabiity Engineer
Citrix Systems 📅 Apr 2022 – Ongoing

- Led design of scalable, high-performance software solutions, enhancing system reliability.
- Initiated and executed the containerization of services (C#, Python) for K8S deployment.
- Enhanced system reliability with streamlined grafana monitoring and alerts.
- Optimized CI/CD workflows for Kubernetes, enhancing deployment speed and reliability.
- Led deployment automation via Terraform, Python, Buck, minimizing manual effort.

Site Reliability Engineer
Indian Oil Corp Limited 📅 Mar 2019 – Apr 2022

- **Software Developer:** Automated several data center operations reducing 99% toil. Developed softwares & REST APIs as per business needs. **(Python/Bash/SAP-PI/Ansible/K8S)**
- **System Administrator:** Managed on-premise & public cloud to host business applications.

Software Engineer
Indian Oil Corp Limited 📅 Sep 2015 – Mar 2019

- **System Administrator, Developer:** Managed SAP solutions and developed Python/Bash tools for application, OS, VM, and database monitoring and migration.

MAJOR PROJECTS

- ### Kubernetes Cluster as PaaS
  📅 Apr 2022 – Ongoing
  – Built resilient AKS infrastructure with Terraform, optimizing reliability and cost.
  – Containerized and migrated services to Kubernetes, optimizing efficiency and scalability.

- ### SAP and OS Task Automation and Ticketing Tool 📅 Jul 2021 – Apr 2022
  Architect/Team Lead
  – **ABAP, SAP RFC, Django, Bash, ReactJs, Docker, Kubernetes, Bash, OpenShift**

- ### Development and Corporate-wide deployment of **Video Conferencing** and **Instant Messaging** Service 📅 Oct 2020 – Jul 2021
  – **Django, Jitsi, XMPP, Docker, Kubernetes, Bash, ReactJs, Java, AWS, Oracle cloud**

- ### SSL Certificate Management Tool 📅 Jun 2018 – Aug 2018
  – **Flask, Python, pyOpenSSL, Docker, Openshift**

- ### Comparative Analysis of TMEM Configurations in Virtualized Environment 📅 Jul 2014 – Sep 2015
  – Comparative analysis of Transcendent memory Configurations for each disk-cache setup possible with XEN hypervisor and linux Kernel. **(Linux Kernel, Xen, KVM, C, Python)**

- ### Kernel Module Implementation for Network Address Translation (NAT) 📅 Nov 2013 – Dec 2013
  – **Linux Kernel, C, Networking, Net-filter Hooks**

EDUCATION

M.Tech in Computer Science
IIT Bombay, Mumbai

🎓 CPI: 8.1 📅 Jul 2013 – Sep 2015

B.Tech in Computer Science
Bhabha College of Engineering

🎓 CPI: 7.7 📅 Jul 2008 – June 2012

ACHIEVEMENTS

- GATE CSE 2013 - AIR 83
- GATE CSE 2015 - AIR 59
- GATE CSE 2017 - AIR 236

SKILLS

Programming Languages
C, C++, Python, Java, Go, C#

Databases
SAP HANA, PostgreSQL, MySQL, Oracle

Tools
Docker, Kubernetes, Shell, Terraform, Ansible, GIT, Puppet, Grafana, Prometheus, CheckMK, Jenkins, Perl, PHP, ELK

Applications
Jitsi, Ejabberd, Ngnix, HAProxy

PublicPrivate Cloud
AWS, Oracle, Azure, OpenShift

INTERESTS

Linux Kernel   Cloud Computing
Virtualization   Networking

Distributed Systems   DevOps
System Administration