SHUBHAM KUMAR

DevOps Engineer

@ shubhamsaxena2110@gmail.com ☎ +91-9599239456 ● NCR, India in xlrshubham ○ xlrshubham

EXPERIENCE

Senior Site Reliabiity Engineer
📅 Apr 2022 – Ongoing
Citrix Systems

- 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
📅 Mar 2019 – Apr 2022
Indian Oil Corp Limited

- **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
📅 Sep 2015 – Mar 2019
Indian Oil Corp Limited

- **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

SAP EXPERIENCE

- ## Major SAP Projects

  – Database migration for all SAP landscapes(SAP ECC, PI/PO, ESS, SOLMAN etc) from Oracle to HANA.

  – Deployement of all SAP landscapes for Indian Oil's City Gas Distrubution (CGD) Project.

- ## SAP BASIS Administration   📅 Oct 2015 – Ongoing

  – Configured, Installed and monitored mission critical applications like SAP ECC, SAP PO, SAP Gateway, Solution Manager, HANA, BW etc.

  – Experience in Installtion/Upgration/Migration for SAP application.

  – Experience of Database migration from Oracle to HANA

  – Experience of OS level activities like clustering, instance migrations etc.

  – Experience of SAP system performance tuning as per bussiness requirement

  – Experience of working with other SAP systems like saprouter, webdispatcher, cloud connector etc.

- ## SAP PI/PO Development   📅 Oct 2016 – Ongoing

  ### Java

  – Implemented web services with REST, SOAP, IDOC, SFTP, File and other communication adapters.

  – Implemented scenarios with Pretty Good Privacy (PGP), JWT and other latest security standards for singing and encrypting messages going through PO.

  – Experience with JAVA Mapping, Message Mapping, UDFs.

- ## SAP JAVA BASIS   📅 Oct 2016 – Ongoing

  – SAP NW Java performance optimization for more than 2M b2b messages per day.

  – Deployed and monitored SAP NW Java instaces in hight availability mode.

- ## SAP BASIS Helpdesk   📅 Oct 2015 – Ongoing

  – Experience in handeling User queries related to account management, roles and authorization, dumps, locks and other errors.

  – Experience in finding root cause of issue and redirecting issue to concerned functional team.

  – Experience in transporting development request manually or at OS level or through SAP ChaRM.

- ## SAP ABAP Developer   📅 Oct 2015 – Ongoing

  – ABAP Reports, Functional Modules

SAP APPLICATIONS

- Experience of working with complete landscapes for following SAP Applications:
  – PI/PO
  – ECC
  – Gateway
  – Solution Manager
  – Netweaver
  – webdispatcher
  – SAP Router
  – Cloud connector
  – SAP BW
  – SAP Cloud
  – OpenText
  – ChaRM