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SUMMARY

Innovative DevOps engineer with a strong Linux background and over a decade of experience designing, automating and managing mission critical infrastructure deployments by leveraging SRE principles and other DevOps processes. Expert in scripting using python with an emphasis on real-time, high speed data pipelines and distributed computing across networks.

EXPERIENCE

• Workday

Senior Software Development Engineer, DevOps Software Development Engineer III, DevOps Software Development Engineer II, DevOps Victoria, BC, Canada May 2023 - Present. May 2021 - April 2023. May 2019 - April 2021.

• Development and Operations:

- Implementing policy-based infrastructure management using OPA and Atlantis improving developer experience while providing them more control over their resources and helping them shift security best practices to the left.
- Mentoring developers and junior engineers as they grow into their role.
- Created an automated AWS deployment pipeline to deploy microservice application cross account and cross region reducing operations toil by several hours.
- Actively manage, improve, and monitor infrastructure resources in DC and on AWS including but not limited to EC2, ECS, Route53, S3, RDS, Lambda, ES etc. using tools like ansible, terraform, wavefront, ELK stack and slackbot.
- Writing Jenkinsfiles and improving shared libraries for automated build and deployment of several applications and services using Jenkins.
- Migrating applications and services to an in-house flavor of Kubernetes platform.
- Knowledge Share: Spearheaded an initiative between operations and multiple dev teams to empower the developers with the knowledge they would need to take ownership of their services.
- Scrum Master: Helping team self organize and self manage by incorporating servant leadership principles.

• NYU CUSP

Associate Research Scientist Assistant Research Scientist Brooklyn, NY, USA

May 2015 - May 2019

June 2014 - May 2015.

- o **Dockkeeper**: Developed a scalable and secure container scheduling and monitoring tool that leverages the docker ecosystem and prometheus for provisioning services on physical hosts. This helped eliminate the VM license fees of over \$35,000 per year and optimizing the efficiency of hosts by over 55%.
- **UOInfra**: Architected the NYU/CUSP Urban Observatory's multi-site physical infrastructure consisting of multiple dense compute and storage nodes comprising of over half a petabyte of storage space, provisioned for multi-user mini-HPC environments, using Ansible and Packer.
 - Deployed a 27 screen vizwall using a cluster of networked raspberry Pi's enabling researchers to interpret their visualizable data, while keeping the whole price to 1/8 th of that of a commercial solution.
- SONYC: Developed a secure machine critical IoT platform and implemented CI/CD framework for deploying and maintaining over 100 urban noise monitoring sensors in NYC. This project has won the \$ 4.6 Million CPS frontier award from NSF.

EDUCATION

• NYU Tandon School of Engineering

Master of Science in Telecommunication Networks Thesis - CitySynth: Imaging with a Network of Devices Brooklyn, NY, USA Aug. 2012 - May. 2014

CERTIFICATIONS

• CKA Certified Kubernetes Administrator:

August 2020 - August 2023

Certificate Id: LF-bu4edd0v34

PROJECTS

- UCSLHUB: Developed a resilient and scalable back-end infrastructure using docker swarm, jupyterhub and keycloak for hosting the CUSP's UCSL bootcamp which are accessed by hundreds of students every year.
- **HOMELAB**: Running a HCI homelab with ansible and terraform managed KVM nodes with Ceph running behind a Pfsense firewall that is used for testing and development including emulation of distributed datacenters for UO Infra.

Publications, Teaching Experience and More..

• View it online: https://sharmamohit.com/