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Sourabh Mishra

Building AI-native software services | Ex-Media.net (Directi) |
Athenasquare | MANIT
Bengaluru, Karnataka, India

Summary

Leading the best product teams while shaping Services 2.0.

Experience

Heizen (formerly OpenGig)

Founding Member

September 2023 - Present (2 years 3 months)

Hyderabad, Telangana, India

OpenGig

Founding Member

September 2023 - May 2025 (1 year 9 months)

Hyderabad, India

Media.net

2 years 3 months

Site Reliability Engineer

July 2023 - March 2025 (1 year 9 months)

India

Site Reliability Engineer

January 2023 - July 2023 (7 months)

Mumbai, Maharashtra, India

Athenasquare

Founding Member

February 2022 - September 2023 (1 year 8 months)

Headstart - MANIT Alumni Connect

Head Coordinator

March 2021 - April 2023 (2 years 2 months)

Bhopal, Madhya Pradesh, India

ED-cell MANIT Bhopal

Head of Events

August 2019 - April 2023 (3 years 9 months)

NIT, BHOPAL

LinuxWorld Informatics Pvt Ltd

8 months

Mobile App Development Using Flutter

July 2020 - September 2020 (3 months)

Jaipur, Rajasthan, India

Mobile Application development both for android and ios using flutter by google...

The Future of Cloud Computing: Hybrid Multi Cloud (AWS | OpenStack | Terraform | Kubernetes)

June 2020 - July 2020 (2 months)

Govindpur, Jaipur, Rajasthan, India

A. AWS (Public Cloud) :

- Setting up the system for AWS
- AWS Storage: The S3 Bucket
- The Root Module
- AWS Compute:
- AMI Data, Key Pair, and the File Function
- The EC2 Instance
- User Data and Template Files
- AWS Networking:
- VPC, IGW, and Route Tables
- Subnets, Security, and the Count Attribute
- AWS infrastructure : IAM policies, Auto-scaling, Lambda, Cloud Trail, Cloud Watch, RDS, Cloudfront
- AWS : HA Architecture
- Setup large-scale, high-traffic, redundant, cloud-based IaaS/PaaS/SaaS environment at a Public Cloud provider like AWS
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B. OPENSTACK (Private Cloud with Containers) :

- Openstack Overview
 - o Nova architecture
 - o VM provisioning walkthrough
- OpenStack Networking Overview

- o KVM networking with Linux bridges
- o Single-host vs multi-host networking
- o The role of Network Manager

Floating IPs

- o Traffic Flow
- Openstack Storage Overview
- o The Ring, RingBuilder, partitioning
- o Account, container and object servers
- o Replication
- o Security/ACLs
- o Deployment and Operations
- Automated Installation of Openstack
- o Service Architecture
- o Openstack cookbooks – Management server, Keystone, Glance, Quantum (Neutron), Nova, Cinder, Horizon
- OpenStack Magnum
- o OpenStack's Container Infrastructure Management Service (Magnum)
- o Managing Clusters with Magnum Using the CLI and DashBoard

C. Terraform (with AWS & OpenStack) :

- o Infrastructure As Code In AWS / OpenStack With Terraform
- o
- # Configuring and Creating AWS / OpenStack Resource with Terraform
- o Terraform Concepts
- # Terraform Concepts:
- # Resources ,Data Sources,Locals,Outputs,Templates And Files,Providers,Variables
- o Terraform Modules
- # Terraform Custom Modules and Registry Modules
- o Terraform State
- # Terraform State -
- # Managing Terraform Plans and Remote State
- o Multiple Environments & Resource Meta Parameters
- # Terraform Workspaces
- # Resource Meta Parameters
- o Terraform with OpenStack
- # Block Storage
- # Compute
- # Networking

Load Balancer

Firewall

Object Storage

Machine Learning with DevOps - MLOps

April 2020 - June 2020 (3 months)

Jabalpur Cantt, Jabalpur

MACHINE LEARNING AND DEEP LEARNING:

- Worked in Redhat Linux [RHEL8 and RHEL7]
- Researched in various libraries of Python for Data Science and Machine Learning
- Learned TensorFlow code-basics working behind Keras
- Graph Visualization using various libraries seaborn, matplotlib....
- Linear Regression model with customization
- Logistic Regression model
- K Nearest Neighbor algorithm
- K-Means classifier algorithm
- Random Forest classifier algorithm for unsupervised learning
- Neural Networks (Deep Learning and Deep fake)
- Feature Extraction and Feature engineering
- Feed forward neural networks (FNN)
- Convolutional neural networks (CNN)
- Recurrent Neural networks (RNN)
- Generative Adversal Neural Networks (GAN)
- Restrict Boltzman Machine (RBM) for business model creation
- Long Short-Term Memory (LSTM)
- Collaborative Filtering with RBM
- Autoencoders & Applications in machine learning
- How to compose Models in Keras
- Saving and Loading a model with Keras
- Computer Vision using NN
- Text Data Processing
- Image / Video processing with various libraries
- Speech analytics - Speech to text / Voice tonality
- Transfer Learning
- Object Detection with SSD
- Neural Networks, Convolutional Neural Networks, R-CNNs , SSDs, YOLO & GANs

- Transfer Learning and using pre-trained models (VGG, MobileNet, InceptionV3, ResNet50) on ImageNet and re-create popular CNNs such as AlexNet, LeNet, VGG and U-Net
- Facial Recognition with VGGFace
- Executing, Annotate, Train and Deploy Custom Mask R-CNN models

DEVOPS:

- DevOps CI/CD pipeline to build and deploy a project
- Git, Maven, Jenkins, Docker, Kubernetes
- Integration of CI/CD with ML/DL
- Deploy ML/DL model over kubernetes

The Future of Automation: DevOps Assembly Lines

April 2020 - June 2020 (3 months)

Jaipur, Rajasthan, India

Understanding DevOps:

- Designing and implementation of Continuous Integration Continuous Delivery Release Management
- Architecture, Design, and Implementation of highly scalable and highly available solutions
- Monitor infrastructure, set up monitoring tools, review a regular basis and collect stats
- Monitoring, troubleshooting and diagnosing infrastructure systems.
- Infrastructure usage and monitor
- Organize log, event, and monitoring data/ stats and create reports for management
- Zero Downtime Deployment Light Dark Green Blue architecture
- Execute Unit Tests in CI/CD server Jenkins
- Incremental code testing and deployment
- Agile Project Tracking tools

DevOps Tools in areas like CI/CD Environment Automation, Release Automation, virtualisation, infra as a code or metrics tracking.

- Docker & Kubernetes
- ELK Stack - (Elastic Search, Logstash, Kibana)
- Source Control Management (Git, GitHub & Gitlab)
- Jenkins: Multi-staged CI / CD with tools
- Introduction to Openshift (PAAS Cloud) with Docker/Podman and Jenkins pipeline
- Performance Monitoring Tools (Kibana, Grafana, Prometheus etc)

C. Python Scripting Language

- Test execution and Reporting with Pytest framework
- Implement unit tests in python using the discipline of Test Driven Development(TDD)

TRAINED IN REDHAT LINUX 8 O.S

February 2020 - April 2020 (3 months)

M P State Centre, Bhopal

I got training in redhat linux 8 operating system from linux World CEO and founder.

I can work efficiently on linux operating system with networking and package management.

Red Hat

DevOps - Automation Using Ansible (with RedHat Official Training - RH294 - RHEL 8) - Expertise Level

July 2020 - August 2020 (2 months)

Jaipur, Rajasthan, India

Education

Maulana Azad National Institute of Technology

Bachelor of Technology - BTech, Electrical Engineering