Balaji Somasale

Master's Student @ Dalhousie University

Ex-Software Engineer(DevOps) || Tech Enthusiast

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WORK EXPERIENCE

Information Technology Analyst - Remote Part time
Royal Bank of Canada

05/2022
One of the Biggest Banks in Canada

Achievements/Tasks
- Monitored system performance and identified potential issues to be escalated to senior staff
- Troubleshooting all tech issues and be On-call

Devops Engineer
Cognizant Technology solutions

06/2019 - 07/2021

Achievements/Tasks
- Implemented continuous integration and delivery pipeline using Jenkins, GitHub, Docker and Kubernetes clusters.
- Developed tools to automate everyday tasks in the DevOps pipeline including building new code into docker images, deploying those images to Kubernetes and starting/stopping pods.

Jr. DevOps Engineer Intern
RK INFO Systems

01/2019 - 05/2019   *Hyderabad,India.*

Achievements/Tasks
- Managed and maintained Linux servers, Kubernetes clusters, AWS instances, and Docker containers.
- Managed development of a robust Cloud platform sitting on AWS architecture.

EDUCATION

Masters in Internetworking
Dalhousie university

09/2021 - 04/2023   *Halifax, Nova Scotia, Canada*

Courses
- Docker, Python, GIT
- Cloud Computing

B. Tech in Electronics and Communication
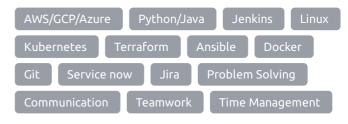Amrita Vishwa Vidyapeetham

06/2015 - 05/2019   *Kollam,Kerala*

Courses
- Final year project:Integrated System for Intrusion Detection & Prevention in Computer Networks: (Machine Learning).
- Worked on Automated Projects || Organised Events || Volunteered in Social Responsibility Events || Participated in Workshops and Sports.

SKILLS

AWS/GCP/Azure · Python/Java · Jenkins · Linux · Kubernetes · Terraform · Ansible · Docker · Git · Service now · Jira · Problem Solving · Communication · Teamwork · Time Management

PERSONAL PROJECTS

Kubernetes cluster on AWS
- Built Kubernetes Cluster on AWS from Scratch with Minikube
- Setup and managed Docker containers for Django and React applications into Kubernetes pods
- Managed Deployment, Replication, Auto-healing, and auto-scaling for Kubernetes cluster

Building Simple Java application using Maven and Jenkins into AWS Cloud
- Gathers Java code from local environment to Git repository
- Building and testing the java code using Maven and Jenkins
- Jenkins triggers the code changes and deploys war files into AWS to access the website globally

Deploying Nginx application using Google Kubernetes Engine(GKE)
- Configuring Clusters using Google Cloud Platform
- Deploying and exposing Nginx container using Services and Ingress
- Accessing Nginx website using Endpoints

Integrated System for Intrusion Detection & Prevention in Computer Networks: (Machine Learning)
- Getting the Raw Data from KDD Dataset repository and analyzing the data using ML Algorithms. Connecting to the manual network using Wireshark, fetching the details of Protocols and obtaining the results by code and blocking the IP address by using Cisco Packet Tracer.

ACHIEVEMENTS

Best International RESEARCH Award
for EXPLORER BOT (War Field Spying Robot) in Robotic and Automation for Humanitarian Applications (RAHA2016) International Conference on 18th December 2016 to 20 December 2016.

Research Paper Publication : Springer ICICCT(PAPER id: 0166)
Integrated System for Intrusion Detection & Prevention in Computer Networks: (Machine Learning)

CERTIFICATIONS

AWS Certified Cloud Practitioner(CLF-C01)