

mail@rachejazz.me

Divya Goswami

Bangalore, Karnataka

Versatile Developer and Operational engineer with experience in system administration, site reliability, automation and programming. Deployed sites, automated manual workflows, debugged and analyzed server failure in the past. Capable of working under pressure and with patience.

Skills

- **Scripting and Automation:**
 - Scripts using **Bash** and **Python** over **AWS Lambda** and service scripts on k8s clusters.
 - Deploying clusters with **Ansible** script and monitoring health over **ArgoCD**
 - Pipeline setup over **Jenkins**
- Version control system: Demonstrate expertise in the knowledge of **GitOps**.
- **System Administration:**
 - Efficient both on **Linux** (4yrs) and **Windows** servers.
 - Tested deployments on local env using **VirtualBox**, **VMWare**.
 - AWS services handling **IAM**, **ECS**, **DynamoDB**, **EC2**, **ECR**, **S3**, **ELB**, **Lambda**, **VPC**, **Cloudwatch**.
 - **Kubernetes** Monitoring and Security with **Falco** and **K8scan**. **Secret Management** using **Hashicorp Vault** and cluster hardening based on **CISA** rules.
 - Hardening **Docker** images and setting up healthchecks for failed pipelines.
 - Setup dashboard over **Grafana** using **promql**
 - Currently building a tool for **Domain/IP Enumeration**.

Education

- **Heritage Institute Of Technology**
Btech in Computer Science
2018 - 2022, KOLKATA, CGPA 8.2

My Personal Experiments and Projects

Portfolio link: <https://rachejazz.me>

Github Profile: <https://github.com/rachejazz>

Talks:

- [Divulging your social profile](#) Nov 2020
- [Dumb Browser ft. Smart Policy](#) June 2021
- [Looking for Open Source Software on Z?](#) Sept 2021
- [Who Begat Python?](#) Sept 2021
- [Software Discovery Tool!](#) Sept 2021
- [Let Your Voice Assistant Deploy Your Code!](#) May 2021

Tech Blogs:

<https://rachejazz.me/blogs.html>

Certifications and Volunteering

- **AWS Community Builder**
- AWS Community Program
- **IBM Z Ambassador 2021**
- IBM Z, Your Big Year
- **GHC Scholar and OpenSource Mentor 2021**
- Anita Borg
- **Beginner in Linux Kernel Development (LFD103)**
- Linux Foundation
- **Linux Server Management and Security**
- University of Colorado System, Coursera

Experience

- **DevOps Intern**
March 2022 - May 2022
INDmoney, Finzoom Investment Advisors (P) Limited.
 - Setting up metrics and alerts for **RDS/ECS Services/Redis** clusters using cli and setting up dashboard on grafana by linking cloudwatch logs using arn policy.
 - Recording data of uncharted resources over excel sheet using 100% automated workflow.
 - Setting up IaC using Terraform modules and progressing towards 0% manual devops workflow.
 - Tag based cost allocation and migrating cost exploration from AWS to Grafana. Setting up Jenkins job for auto allocation of tags of every new resource
 - Assigned with core deployment window. Issuing hotfixes and monitoring proper gitops deployment everyday.
- **Dev(Sec)Ops Intern**
September 2021 - March 2022
Trell Experiences Pvt Ltd.
 - Implemented **GitOps Security** - access control and cicd pipeline upgrade
 - **Docker and Kubernetes Security** - Deployed **Vault** and **Falco** via helm for secret rotation and management and monitoring events on k8s cluster. Created hardened **Docker** images for restricting privileges to running services.
 - **System-Admin, Security and IAM** - Created scripts to scan unprivileged users using **sudo** on server, setup monitoring on grafana and **promql** for on demand log monitoring based on time period over kibana, automate exit policy for employees exiting the org. Segregated **Windows** server for separate vendor teams by user access management over **Windows** file system.
- **Open Mainframe Project Mentee'21**
June 2020 - Aug 2021
The Linux Foundation, IBM Z
 - Revamped a **Flask** application for **IBM Z**
 - Refactored 70% of code and improved **UI** and **Backend**.
 - Scripted automations for pulling and formatting data for various **Linux Distributions**.
 - Reduced 80% manual configging and reloading of server that helped moving forward with **CI/CD Pipeline**
 - Tested deployments and used git submodules to make data import from different more flexible.
- **Jr. DevOps Engineer**
2020 Dec - 2021 Feb
Dynopii Pvt. Ltd.
 - Administered 4 **Ubuntu** servers
 - Surveillanced application deployments on **Digital Ocean**.
 - Wrote **Dockerfiles** and **docker compose** and tested deployment locally on **VMWare**.
 - Setup **fail2ban** firewall for preventing online **VoIP** server attacks.