

Divya Goswami

Versatile Operational and Security engineer with experience in system administration, site reliability, automation and programming. Capable of working under any environment.

Edgbaston, Birmingham

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

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

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

Education

University of Birmingham

MSc in Cybersecurity

2023 - PRESENT, BIRMINGHAM

Aced modules:

Cryptography and Network Security,
Forensics, Malware and Penetration Testing

Heritage Institute Of Technology

Btech in Computer Science

2018 - 2022, INDIA, CGPA 8.2/10

Aced modules:

Year 2: Operating Systems,
Year 3: Database Management Systems and
Year 4: Cryptography and Network Security

Skills

Scripting and Automation:

- Scripts using **Bash** and **Python** over **AWS** and **GCP** and service scripts on k8s clusters.
- Pipeline setup over **Jenkins**

Demonstrate expertise in the knowledge of **GitOps**.

System Administration:

- Efficient both on **Linux** (5yrs) and Windows servers.
- Compete over challenges on **hackthebox/vulnhub** and prepare for **OSCP** certification.
- Kubernetes Monitoring and Security**. **Secret Management**, **cluster hardening** based on CISA rules.
- Hardening **Docker** images and setting up healthchecks for failed pipelines.
- Custom building **Linux kernel**, creating drivers in C
- Configuring **Network Firewalls**, **Security Scanners**, conducting **VAPT** reports on product

Projects (All available on github)

- Bypassing CSP, File Forensics a study of how polyglot files can be taken advantage of in bypassing CSP rules for Reflected XSS attacks.
- Deployment using Voice assistant driven pipeline
- Laufeyson, Domain Recon Framework capable of gathering intel on a domain or an IP.
- Study of the GNU toolchain for InterProcess Communication(IPC) in an OS
- Software simulation of a computer from scratch.
- DevSecOps-Automation-Monitoring scripts that can be used for daily workflows.
- Keka Reminder Bot capable of sending scheduled messages with minimal memory consumption.
- New Tab Extension that supports chrome and firefox browsers. Available on Firefox Add-ons.

Employment

Site Reliability Engineer

June 2022 - August 2023

Workspan, Angad Corporate, Pvt, Ltd.

- Automation in GCP to Jira Integration, open firewall detection and removal, expired IAM access purging
- CICD security scanning, SCA, SAST, DAST report creation.
- Google Security Command Centre exploration and instructing strict adherence to security practices.
- Secret Management, SSL certificate update, WAF configuration on GCP

DevOps Intern

March 2022 - June 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.
- 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, CI/CD 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, on demand log monitoring based on time period over kibana, automate exit policy for employees exiting the org.

Open Mainframe Project Mentee'21

June 2021 - 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

Jr. DevOps Engineer

Dec 2020 - Feb 2021

Dynopii Pvt. Ltd.

- Administered 4 Linux 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.

Achievements

- Student Ambassador, Msc CyberSecurity 2023
- AWS Community Builder 2022
- IBM Z Ambassador 2021
- GHC Scholar and OpenSource Mentor 2021
- Scholarship to Attend BlackHat Europe 2023
- Beginner in Linux Kernel Development 2022
- Linux Server Management and Security 2022