

Rishabh Lakhotia

DevSecOps Engineer

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To work in the field of DevSecOps and constantly learn new technologies, and work in a way to promote personal growth as well as the growth of the organization.

WORK EXPERIENCE

Bright Money

(October 14, 2021 - Present)

DevOps Engineer

Majorly worked on improving the security of infrastructure, creating and managing deployment pipelines, metrics and alert systems. Additionally, daily work includes supporting developers for any infra issues, access management, and general debugging. Apart from these, my individual projects included:

- Improved email authentication, implemented SPF, DKIM, DMARC, and reduced spam rate to 0%
- Cleaned up AWS IAM to make IAM management simpler
- Worked on Infra Cost reduction and brought down cost by 35% in two months
- Implemented zero trust password management and credential sharing
- Made all S3 buckets private - only trusted users and resources were allowed to access any data
- Improved PCI DSS compliance score by 31%
- Created multiple utility tools to help developers automate their various regularly occurring tasks, saving upto one hour of time daily

🔗 <https://www.brightmoney.co>

Droice Labs

(August 04, 2020 - October 13, 2021)

DevOps Engineer

Daily tasks include creating and maintaining pipelines and deployments, ensuring all the systems are running properly, and work on passive security. Additionally, some of the tasks include:

- Support various teams in their development processes.
- Worked on setting up CloudFlare for Teams for secure access to internal applications.
- Created an application that fetches data from Google Sheets and displays it as tables on a static generated website for relevant stakeholders in < 2 seconds.
- Worked on multiple security issues and vulnerabilities to increase security score from 72 to 100 on securityscorecard.com.
- Implemented 2FA on AWS Workspaces using RADIUS, LinOTP, and Google Authenticator.
- Developed initial setup scripts for Amazon Workspaces and development machines to reduce setup time to < 5 minutes.
- Created a tool to request and provide access for Devs and other teams via slack.
- Helped implement Intrusion Detection and Prevention system, setup various monitors to check system health.
- Automate large scale text extraction with 1000+ containers.
- Worked on migration of various environments, from Dev to Prod.

🔗 <https://www.droicelabs.com>

NymoAI

(January 22, 2020 - July 17, 2020)

Implementation Engineer Intern

Architected and configured a Health Management System to monitor multiple servers, containerized applications such as docker containers and processes and raise alarms on them. Installed, configured and customize some open source products such as Netdata, Grafana and Prometheus as the base framework for such health management system

Stack: Node.js, MongoDB, Netdata, Prometheus, Grafana, Slack(for notification bot), AWS SES

Deployment: Docker Swarm, Nginx, DigitalOcean droplets and networking

🔗 <https://nymo.ai>

Facebook

(January 03, 2017 - November 16, 2017)

Campus Ambassador India

Tested beta projects, worked on the enhancement of the local languages, and a few security issues. Found a critical bug in the profile picture guard that would allow anyone to download profile photo.

TEDxDSCE

(January 01, 2017 - May 04, 2020)

Organizer and Technical Head

Managed website, create SMS and email API over AWS lambda for communication, and managed a payment gateway.

Automated weekly newsletters and self-hosted cloud storage to avoid dependency on a provider.

Stack: Node.js, MongoDB, MySQL, Nginx, Msg91, AWS SES, SendGrid, Ghost, Sendy, statuspage.io, OwnCloud.

Deployment: AWS EC2, AWS Lambda, CloudFront, API Gateway, Heroku, Vercel, GitHub Actions, NS1

🔗 <https://www.tedxdsce.com>

EDUCATION

Dayananda Sagar College of Engineering

Bachelor of Engineering, Computer Science and Engineering

🔗 <https://www.dsce.edu>

(August 02, 2016 - August 18, 2020)

8.9 CGPA

Jayshree Periwal High School

Higher Secondary School

🔗 <https://www.jphschool.com/>

(March 31, 2013 - March 26, 2015)

77.6%

PROJECTS

Recon X

Recon-X allows researchers to quickly discover information and vulnerabilities in websites and network infrastructures. All the tools are exposed via REST APIs and the project is open for anyone to use.

DSCE Forum

Discussion Forum

It is a student forum developed by me for the college. Earlier it was limited only to the students of DSCE but is now open to all.

↪ <https://forum.dsce.in>

Mail Server

A mail server that can be used by students to host their emails, for personal and community use. Currently, it processes over 3,000 emails a day with a peak value of 12,000+ emails in a day.

Slack Coffee

A serverless application, would match two people in a slack workspace for a cup of coffee, daily.

CSE Lab Manual

An alternative to printed Lab Manual, can be used to refer Lab programs and anyone can contribute to it.

↪ <https://cselm.rishabhlakhotia.com>

BombSquad Game Server

Currently hosting three public game server for the game BombSquad. All game lobbies run inside containers. This is my project to work on SRE skills, and it has been running for 4 months without any downtime.

SKILLS

CI/CD



Buddy Works, Jenkins, Sonar

Scripting



Shell, Python

Cloud Architecture



AWS, Google Cloud, Networking, Cloud Security

LANGAUGES

JavaScript ES8



Python



SPOKEN LANGUAGES

English

Bilingual Proficiency



Configuration Management



Ansible, PyInfra

Containers



Docker, Docker Swarm, Kubernetes, HarborIO

Cryptography



GPG, PKI, S/MIME

Bash



Hindi

Native



HONOURS AND POSITION OF RESPONSIBILITY

Wall of Fame

Department of CSE

Awarded for implementing new technologies within the campus, free for all students, for better access to learning material. The only student to receive this in the batch of 2020.

Webmaster

ACM Student Chapter - DSCE

Core Member

Google Developer Students' Club

CERTIFICATIONS

Google Cloud Platform Fundamentals: Core Infrastructure
Coursera

(April 08, 2019)

Google Cloud Platform Big Data and Machine Learning Fundamentals
Coursera

(April 10, 2019)

Introduction to Computer Science and Programming Using Python
edX

(August 17, 2016)

IPv6 Certification
Hurricane Electric