

VIHAR DEVALLA

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Enthusiastic Site Reliability Engineer with hands-on experience in platform observability, incident response, and automation tooling in high-scale environments. Passionate about building resilient systems, optimizing platform reliability, and contributing to open communities.

Work Experience

Arcesium

June 2023 – current

Senior Site Reliability Engineer - Platform Site Reliability Engineering

Bengaluru

- Leading the team for handling **Platform Restoration**, coordinating and working with teams to handle disaster recovery in cases of regional resiliency issues in cloud providers, ransomware attacks, etc. Collaborated with different teams to rebuild the platform with a clear targeted RPO.
- Spearheaded the design and development of a firm-wide **Reliability Risk Audit Scoring System**, enabling stakeholders to assess observability, reliability posture and application risk across platform.
- Optimizing the code for observability for **key platform deliverables** for the firm, and worked on multiple automation tools for the team. These tools helped during incidents to identify root causes quicker and allow for faster incident resolution.
- Oversaw the platform observability as an part of the oncall team, contributed to identifying risks to platform stability, triaging and bringing cross functional teams together to tackle incidents.

Arcesium

Jan 2023 – May 2023

Site Reliability Engineer Intern

Bengaluru

- Led the development and implementation of a **Kubernetes debugging tool** to help developers identify issues and overall stability of the application by interacting with Kubernetes API Server from Slack

Basel Practitioners Private Limited

June 2021 – July 2022

Technical Intern

Remote

- Led the development of the **flagship product BPPL RAMS**, a Risk Management Application for Banks. Created the first Proof of Concept (PoC) and managed a team of interns, overseeing frontend, backend, and Docker/AWS deployment, significantly advancing the project's development and implementation.

Projects

Reliability Risk Audit Scoring System

- Built a template based framework in Go to pull metrics regarding risk auditing of applications from various sources across the firm. A web based dashboard was also created to visualize the data. This dashboard was used to approve and mark new releases within the entire firm and help app teams adopt reliability as part of the SDLC cycle.

Kubernetes Debugging Tool for Slack

- Developed a Slack bot using the Slack-Bolt Framework to retrieve Kubernetes resource health and surface logs, metrics, and network paths via Slack, enabling faster diagnostics and improved developer productivity.

Multi-Factor Authentication Portal – IAM - (Ping Identity)

- Built a secure, scalable MFA self-service portal using Ping Identity APIs and clustered deployments to manage enterprise MFA device workflows.

mURLi: A Tool for Detection of Malicious URLs and Injection Attacks

[Research Paper Link](#)

- mURLi**, is a tool ,developed for detection of Malicious URLs, SQL Injection attacks and NoSQL Injection Attacks, which pose a large threat to the end-users. This paper was published under Procedia Computer Science, Elseviers (2022).

Temples Restoration using Gated Convolution and Contextual Attention in GANs

[Research Paper Link](#)

- Presented a paper at ICSCCC-2023, involved in research on a novel Deep Learning approach to digitally restore broken and eroded pieces of heritage temples and sculptures in India. This approach uses Gated Convolution and Contextual Attention layers added to Generative Adversarial Networks(GANs). The paper was published under IEEE Explore (2023).

Analytical Comparison of Models for Raga Identification in Carnatic Classical Audio

[Research Paper Link](#)

- Presented a paper at FRSM Conference, involved in research on Indian Classical Music and its classification based on Raga using Machine Learning and Deep Learning models. The paper was published under AISC (Advances in Intelligent Systems and Computing), Springer (June 2021). .

Technical Skills

Programming: Python, Go, JavaScript, C

Cloud & Infra: AWS, GCP, Kubernetes, Docker, Linux Containers

Databases: PostgreSQL, MongoDB

Monitoring & Observability:: Datadog, ELK Stack, Grafana

Achievements

Certifications and Speaker Opportunities

- Completed **CKA (Certified Kubernetes Administrator)** and **CKS (Certified Kubernetes Security Specialist)** certifications from The Linux Foundation
- Speaker at Cloud Security Alliance Chapter Annual Summit 2023 - **Kubernetes Security Automation and Monitoring** and have given sessions on **AI Security** as a part of monthly meetups.
- Training Speaker at BSides Annual Summit 2023 - **Security for Applications and Cloud Platform Automations (IaC)**

Critical Thinking and Technical Skill

- Won the **Arcesium Season Of Code Hackathon 2024** - Showcased and completed a platform integration for a Unified Observability Platform - Signoz - to bring metrics, logs, traces and events in one singular place.
- Won the **Arcesium CTF 2023** - an 24hr Capture the Flag event, ranking first amongst 127 teams across the firm
- Secured 9th Place at **ISFCR 2.0 CTF hackathon** - National Level Capture the Flag event (PES University) to test cybersecurity skill
- Runner-Up (individual) at **ISFCR CTF hackathon** – Capture the Flag event (PES University) to test cybersecurity skills
- Was part of nub5 CTF Team, which was placed **51th team across India** in CTF Time Platform in 2020 , and awarded accolades by participated in multiple CTFs in 2020 , organized by various organizations and colleges.

Problem-Solving and Implentation

- Won the **Srishti Hackathon 2022** for helping NGOs by creating a website template with event planning and volunteer management system.
- Runner up for **Yuvaka Sangha Hackathon 2022** the for creating a project called Adverse Human, which integrates concepts from Machine Learning and Cybersecurity domains, to safeguard a person's online presense
- Winner of Best Overall Implementation in **Websprint 2021 Hackathon** – organized by PES University Electronic City Campus

Education

PES University, Bengaluru

B.Tech in Computer Science Engineering - Specialization in Network and Cyber Security (NWCS)

2019 - 2023

8.95/10 CGPA