

Abhishek Acharya

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Work Experience

Physics Wallah

Noida

SENIOR SOFTWARE ENGINEER

April 2022 - Present

- Managed the entire migration to Kubernetes and successfully **upgraded** systems from version **1.25 to 1.30** without any downtime, enhancing system resilience and future scalability.
- Regularly tuned Kubernetes settings to enhance performance and reliability, ensuring the infrastructure met operational demands efficiently.
- Built a messaging platform capable of processing **33 million TPS**, focused on high performance and cost efficiency using mqtt and emqx.
- Established Virtual Private Cloud configurations from scratch, improving network security and scalability for project deployment.
- Created and maintained CI/CD pipelines using Jenkins, Kubernetes, ECR, ArgoCD, and Helm, reducing deployment times from 45 min to **8 minutes** and supporting over **89,000+** automation executions annually.
- Automated load testing: Developed **automated load testing** setups using Jenkins, JMeter, and Terraform, capable of simulating up to **10 million rpm** to stress test systems pre-deployment.
- Saved over \$800k** in costs by optimizing VPC endpoints, right-sizing workloads, migrating to ARM architecture, and refining NAT and data transfer.
- Streamlined data transfer and service delivery by consolidating infrastructure into a single availability zone and utilizing CDN technologies effectively.
- Designed and implemented a scalable **VPN solution** for **8,000 users**, significantly enhancing network security.
- Strengthened codebase security by **removing hardcoded secrets**, integrating a secret management solution, eliminating access keys, and **promoting IAM adoption**.
- Directed collaborative efforts across teams to manage and resolve vulnerability assessments, ensuring compliance with security standards.
- Grew the team from **1 to 10 members**, fostering a culture of continuous improvement and technical excellence.
- Initiated and led **disaster recovery** planning, execution and final delivery, markedly improving business continuity capabilities.

Urban Company

Gurgaon

SOFTWARE ENGINEER

Jan 2021 - April 2022

- Implemented a comprehensive application security pipeline, incorporating secrets detection, SCA, SAST, Sonarqube, and Docker image scanning, significantly enhancing overall security posture.
- Automated database access controls with time-based access automation, increasing security and operational efficiency.
- Re-architected Hashicorp Vault for enhanced resiliency and high availability.
- Executed the **SSL migration** on over **100+** production servers, achieving zero downtime.
- Oversaw the **public bug bounty program**, reducing average response time to **2 hours**.
- Implemented and managed a **self-hosted SIEM ELK** stack for cloud server auditing, ensuring compliance with security regulations.

Education

Indian Institute of Information Technology

Allahabad

B.TECH (IT)- M.TECH WITH MAJOR IN CYBERLAW AND INFORMATION SECURITY

August 2016 - July 2021

Skills

Languages Python, Shell Scripting

Cloud Technologies AWS, EKS, Kubernetes, Docker, Jenkins, Helm, ArgoCD, Terraform, Kong, KEDA, Karpenter

Observability Prometheus, Mimir, Node Exporter, ELK, Loki, Grafana, Alertmanager, Datadog, Zenduty, SNS

Security VPN, VAPT, WAF, Cloudflare, SonarQube, Trivy, Falco, AWS Secret Manager, Vault

Databases MongoDB, PostgreSQL, Redis, MySQL, Dragonfly

Miscellaneous EMQx, Kafka, JMeter, k6, Envoy, Linkerd, Nginx

Accomplishments

- 2023 Consistently received **5-star** ratings for performance.
- 2022 Awarded **Employee of the Month** and **Quarter** for exceptional performance.
- 2019 **Ranked 5th** in India in CyBRICS CTF, Organized by ITMO, Saint-Petersburg, Russia
- 2018 **Ranked 70th** world wide, CSAW Qualifiers, Organised by NYU, New York
- 2018 **Ranked 60th** world wide, CSAW Qualifiers, Organised by NYU, New York