Yash Tandon

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Education

SRM Institute of Science And Technology — July. 2016 – May 2020
Bachelor of Technology in Computer Science, GPA: 8.78/10 — *Chennai, TN*

Technical Skills

Languages: Python, Go, C/C++, JavaScript, SQL
Tools/Platforms: Git, Terraform, ELK, Opensearch, Apache Kafka, Apache Druid, AWS, Azure, GCP, Docker, Kubernetes
Web Frameworks: Django, Express, Echo
Monitoring/Analytics: Prometheus, Grafana, New Relic, Loki
Databases: MongoDB, Cassandra, Redis, Postgres , MySQL
CI/CD: Jenkins, Gitlab CI/CD, Argo CD, Spinnaker

Experience

Mercari India — June 2023 – Present
Senior Software Engineer, Platform — *Bangalore, KA*

- Contributing to platform observability team
- Developed cost indicator for custom metrics per microservice using Golang and GCP.
- Improving observability by replacing Datadog agent with OTEL-based solution.
- Actively contribute to the platform network team, focusing on enhancing service mesh adoption, improving API gateway performance, and deploying new services on Kubernetes
- Conducted a comprehensive analysis of the current service mesh, identifying key blockers and proposing targeted solutions to increase adoption and optimize performance
- Played a key role in the successful migration of the company's Content Delivery Network (CDN) from Fastly to Cloudflare, ensuring a smooth transition and enhanced content delivery capabilities
- Assumed ownership of the current API gateway, suggesting and implementing improvements to streamline the release process and boost overall performance.
- Actively collaborated with cross-functional teams to deploy new services on Kubernetes, supporting the company's expansion into new business lines and ensuring scalable and reliable infrastructure.
- Developed and deployed a robust uptime monitoring mechanism using Prometheus Blackbox Exporter and Golang, enabling proactive identification and resolution of potential issues.
- Currently spearheading disaster recovery activities, focusing on enhancing the resilience and disaster readiness of critical platform components to minimize downtime and ensure business continuity.

Sprinklr — Dec 2022 – June 2023
Senior DevOps Engineer — *Bangalore, KA*

- Successfully migrated AWS clusters to Karpenter provisioner for improved resource allocation and scaling efficiency.
- Implemented Cilium as default CNI in production environment for enhanced network security and performance.
- Upgraded and maintained Prometheus clusters for effective monitoring and alerting.
- Continuously improved Terraform infrastructure provisioning for streamlined deployment workflows and consistent configuration management.
- Created a network operator in Go to manage network policies, including creating and auditing network policies for enhanced network security and compliance
- Ensured safe upgrades of Kubernetes clusters to version 1.25 by developing and executing upgrade plans, testing and validating new features and compatibility with existing workloads, and implementing rollback procedures in case of issues.
- Currently migrating from Istio to Linkerd as the new service mesh solution for production environment, leveraging Linkerd's lightweight and easy-to-use features to enhance traffic management, security, and observability.
- Optimized Kubernetes resource utilization by developing and implementing a custom operator to monitor metrics for GPU and inferentia nodes on AWS EKS.

Yellow AI — Jan 2021 – Oct 2022
Software Development Engineer 1 - DevOps — *Bangalore, KA*

- Worked on almost every aspect of development - Backend development, DBdesign, Cloud architecture design and implementation, DevOps
- Took the ownership and deployed the entire platform in multiple regions across multiple clouds using Terraform.

- Managed and handled deployments for over 30+ microservices on Kubernetes.
- Triage and resolve critical issues.
- Patched multiple vulnerabilities in multiple VMs, cluster to maintain secure cloud infrastructure
- Experience in working with various AWS, GCP and Azure services to manage and perform day-to-day tasks
- Designed and developed a Central access platform for entire infrastructure for better and secure access to cloud and on-premise infrastructure
- Experience setting up different databases, including working knowledge of SQL and NoSQL databases
- Designed and implemented Opensearch for Logs Analysis and implementing dashboards over crucial indices
- Setup Federated Prometheus and Grafana for monitoring every kubernetes cluster and VM across regions
- Designed and implemented MlFLow as an attempt to introduce MLOps pipeline for the ML Team
- Implemented API Gateway using Nginx
- Setup entire Data Analytics Infrastructure - Druid, Kafka, Logstash for the analytics team for better data visibility

Internships

Hyperverge | *Software Engineer Intern*   **July 2020 – Jan 2021**
- Worked with the Platforms Team
- Migrated the current Infrastructure to Kubernetes .
- Worked actively towards Cost Optimisation on AWS.
- Revamped the Authentication Dashboard using a RBAC approach with Google OAuth
- Participated Actively in Improving UI/UX as well as backend of several apps

Capgemini | *Senior Analyst Intern*   **Jan 2020 – Apr 2020**
- Primarily recieved training on the SFDC Platform.
- Worked on multiple projects as an evaluation for the training completion using Lightning Web Components, Aura,etc.
- Recieved training on Java, AngularJS, Bootstrap, SQL, etc.

CeX Webuy | *Software Engineer Intern*   **May 2018 – Jun 2018**
- Used Yii framework along with JQuery to create a reusable component for the product code.
- Performed Unit testing, Acceptance testing using PHPunit.

Publications

Distributed File Storage Using Blockchains | International Journal of Science and Technology

Certifications

Certified Kubernetes Administrator (CKA) | The Linux Foundation
Certified Kubernetes Application Developer (CKAD) | The Linux Foundation
Hashicorp Certified Terraform Associate | Hashicorp
Red Hat Certified Systems Administrator | Red Hat