

Shubham Sharma

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Experience

Associate Software Engineer (DevOps), RoboMQ – Jaipur, RJ Oct 2023 – Present

- Managed production-grade Kubernetes cluster infrastructure with end-to-end networking automation, implementing AWS Route53 DNS management, Application/Network Load Balancers, NAT Gateways, and HAProxy integration with Istio service mesh. Configured Gateway controllers and VirtualServices for advanced traffic routing and load distribution, ensuring high availability and seamless pod-to-pod communication in multi-environment production deployments.
- Implemented GitOps-driven code quality pipelines using GitHub Actions, Jenkins, and SonarQube integration, establishing microservice-specific quality gates with ESLint/Stylelint validation. Configured conditional merge approval workflows, resulting in 40% reduction in production bugs and improved code maintainability across 100+ microservices.
- Architected automated CI/CD pipelines in Jenkins with Git webhook triggers, implementing intelligent microservice detection, containerized builds with Docker, and automated Helm chart deployments to Kubernetes clusters. Achieved 90% reduction in manual deployment effort and decreased release cycle time from 2 hours to 30 minutes.
- Designed and managed production RabbitMQ broker clusters implementing federation links for cross-cluster message distribution and load balancing. Configured upstream/downstream broker relationships with intelligent routing policies, ensuring high availability and seamless inter-cluster communication for distributed messaging architecture.
- Developed Prometheus-based alerting for dynamic Kubernetes scaling on AWS, reducing infrastructure costs by 33% while ensuring optimal performance.

Education

Poornima College of Engineering (R.T.U.), B.Tech. in Information Technology Nov 2020 – Mar 2024

- CGPA: 8.9/10.0
- **Coursework:** Database Management System, Computer Networks, Operating System, Data Structures and Algorithms, Information Security System, Computer Organization and Architecture

Projects

Kubernetes Cluster Setup & Monitoring

- Automated provisioning of a production-grade, multi-AZ Kubernetes cluster on AWS using **KOPS**, leveraging an S3-backed state store, Route 53 DNS, private subnets, and Auto Scaling Groups for control-plane and worker nodes.
- Deployed a scalable, high-availability Java application across three isolated namespaces, applying resource quotas, network policies, and Horizontal Pod Autoscalers to maximize resource efficiency and fault tolerance.
- Integrated Node Exporter and kube-state-metrics for metric collection, and configured Prometheus and Grafana with custom dashboards and alert rules to deliver end-to-end cluster observability.

Data Integration & Alerting System

- Developed Kubernetes CronJobs to ingest and transform RabbitMQ and MySQL data into Prometheus-compatible metrics, forwarding them via Pushgateway for centralized monitoring.
- Engineered Prometheus alerting rules to detect customer inactivity, notifying stakeholders and orchestrating automated deactivation of persistently dormant accounts through PromQL-driven workflows.
- Enhanced overall observability by delivering real-time customer engagement insights and enabling proactive operational responses to shifting usage patterns.

Technologies

Languages: C/C++ , JavaScript, Python, Bash, SQL, PromQL

OS and Tools: Linux, AWS , Docker, Kubernetes, Jenkins, Helm, Git/GitHub, Terraform, Prometheus, Grafana, RabbitMQ, SonarQube, Active Directory, Stylelint, Eslint

Other Tech: HTML, CSS, TailwindCSS, ReactJs, NodeJs, MongoDB, MySQL, Jira Project Management, Automation