

Parag Gupta

DevOps Engineer | AI-Driven SRE Specialist

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 Noida(U.P), India

SUMMARY

DevOps Engineer with 10+ years building and operating infrastructure for high-traffic platforms — from bare-metal Kubernetes clusters to fully managed environments across AWS, Azure, and GCP. Focused on the intersection of reliability and automation: reducing manual toil, shortening incident response, and keeping systems cheap to run without making them fragile. Active open-source contributor.

EXPERIENCE

Computer Scientist II / I

Adobe
12/2021 - Present

Noida, India

- Built **Lens**, a **Google ADK-based multi-agent assistant** that replaces manual Cortex/Splunk/MongoDB investigation with a single chat interface for AI-driven root cause analysis.
- Rolled out **zero-code distributed tracing** across a Java microservices platform on Kubernetes, adopted org-wide via the onboarding runbook I authored.
- Led tech stack consolidation across environments, achieving **\$376K in annual cloud savings**.
- Developed **modular Terraform components** that automated multi-environment provisioning, cutting setup time from days to hours.

Site Reliability Engineer

Media.net
02/2021 - 12/2021

Bangalore, India

- Designed and deployed an on-premises **Kubernetes cluster** as a secure, multi-tenant **CaaS platform**, enabling teams to onboard quickly.
- Modernized infrastructure monitoring and implemented a **service mesh** to enable secure service discovery and simplify application deployment workflows.

Senior Engineer DataOps

Tokopedia
10/2019 - 02/2021

Noida, India

- Designed a secure hybrid cloud network (GCP + Alibaba)** with Vault-based secrets management, granular access controls, and full-stack logging.
- Reduced GCP expenses by 30-40%** through workload rightsizing, storage optimization, and VM lifecycle automation.

Engineer DevOps

Paytm
12/2017 - 10/2019

Noida, India

- Built and operated a 4,000-core OpenStack cluster** for the payments QA environment, and deployed a **50TB Elasticsearch cluster** to manage high-throughput user data.
- Automated infrastructure provisioning and config management** using Salt and Ansible, reducing deployment errors by 85%.

Engineer DevOps

TO THE NEW
06/2016 - 12/2017

Noida, India

- Designed and containerized application architecture** for GRAILS and Angular apps, implementing CI/CD pipelines with Jenkins and orchestrating deployments using Kubernetes.
- Built HA clusters with automated backups and DR pipelines**, and centralized logging with the EFK stack.

SKILLS

Cloud Platforms & AI Tooling
AWS, GCP, Azure, Azure OpenAI, Streamlit, pandas, MCP

Scripting & Configuration Management
Python, Shell Scripting, Ansible, Puppet, SaltStack

DevOps & Platform Tools
Docker, Kubernetes, OpenStack, Terraform, Jenkins, ArgoCD, Airflow, Kafka, Redis, ELK Stack, Vault, Istio, API Gateway, OpenVPN

Monitoring, Observability & Databases
Grafana, Prometheus, Jaeger, OpenTelemetry, New Relic, Splunk, Elasticsearch, MySQL, PostgreSQL, MongoDB, Aerospike

Unix/Linux Administration
Linux (Ubuntu, CentOS), KVM, QEMU, Libvirt, iptables, Network Routing, VPNs, DNS, SSH, System Hardening, Security Policies

KEY ACHIEVEMENTS

- \$500K+ Cloud Savings** — Delivered cumulative cost optimizations across Adobe, Tokopedia, and Paytm through automation, rightsizing, and infra audits.
- Thought Leadership** — Published blogs on Kubernetes, Django, and AWS CodeDeploy focused on high availability and platform automation.

PROJECTS & CONTRIBUTIONS

- Patent Pending** — USPTO application filed Sept 2025 for an AI-driven observability root-cause-analysis system that fuses multi-modal telemetry data with continuous learning capabilities.
- Terraform Registry Module** — Published, public Terraform module that declaratively manages MongoDB collection indexes from YAML, filling a gap left by the official provider.
- Open Source Contribution** — Merged fix to systemd, Linux's core init/service-management system, adding zsh shell-completion support for systemctl show.
- Other Projects** — Lens · Cortex VM Analyzer

EDUCATION

B.Tech in Information Technology
UPTU | 08/2012 - 06/2016