Sahil Gada

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Education

A.P Shah Institute Of Technology — Mumbai, Maharashtra
B.E in Information Technology — *September 2023 – May 2026*

Shri Bhagubhai Mafatlal Polytechnic — Mumbai, Maharashtra
Diploma in Computer Engineering — *August. 2020 – June 2023*

Experience

Software Engineer - DevOps — July. 2026 – Present
Adaptive — *Powai, Mumbai*

- Automated Kubernetes cluster provisioning on AWS across multiple VPCs and subnets, configuring security groups and network access for secure CLI and client access to managed database resources.
- Built data discovery and classification workflows for database catalog discovery, labels, masking policies, background processing, and classifier services.
- Contributed to the design and implementation of a self-heal and reconciliation mechanism for stuck Kubernetes-based metadata sync jobs.
- Built Terraform automation across 7 platform resource types using provider schemas and authenticated CRUD workflows.

DevOps Intern — Mar. 2026 – Jun. 2026
Adaptive — *Powai, Mumbai*

- Tested and debugged Kubernetes-based provisioning on clusters for a privileged access management, validating containerized proxy pod routing and per-user credential brokering across MySQL, MongoDB, and PostgreSQL targets.
- Built Go APIs for a multi-tenant infrastructure-access platform with identity validation, workspace authorization, and secure admin workflows.
- Root-caused authentication and provisioning bugs across database integrations (MySQL grant replication, MongoDB SCRAM mechanism handling)
- Hardened the Go HTTP service with 5 browser-security controls.

Cloud Support Engineer Intern — Dec. 2025 – Feb. 2026
Future18 Digital — *Vasai, Maharashtra*

- Gained foundational cloud-native operations experience by managing Linux servers, DNS, cloud infrastructure, networking, automated environment setups, user management, and secure access via command-line automation
- Collaborated on client hosting migrations, enabling smoother transitions by 40% while validating configs, handling DNS cutovers, and ensuring environment parity
- Supported cloud-style infrastructure workflows by standardizing server provisioning, environment setup, and configuration consistency across multiple client instances.

GenAI Developer Intern — Nov. 2025 – Dec. 2025
Smaran.AI — *Remote*

- Built and deployed multiple GenAI pipelines generating real-time insights, automated content, and personalized recommendations, improving operational efficiency by 10–15%
- Leveraged Prompt Engineering, RAG (Retrieval-Augmented Generation),and vector databases (Pinecone, FAISS) to create context-aware and high-accuracy AI systems.
- Integrated AI models into production workflows for continuous learning and adaptive performance.

System Engineer Intern — Aug. 2025 – Oct. 2025
Abhyaz - A social enterprise from MTAB Technology Center — *Remote*

- Improved reproducibility by 22% building structured experiment pipelines that followed DevOps practices, and simulated infrastructure deployments through systematic, script-based environment setup.
- Ensured strict version control and full compliance with confidential data and IP requirements throughout development and submission.

- Applied Linux and Bash fundamentals to configure virtual environments, automate routine checks and troubleshoot network connectivity issues across projects.

Software Developer Intern May. 2025 – July. 2025

Amdox Technologies *Remote*

- Designed and deployed scalable web applications using React.js, Node.js, and AWS/Azure.
- Built secure REST APIs, optimized performance for speed and accessibility, and delivered responsive frontends.
- Leveraged AI-driven build analysis to predict and reduce bundle size bottlenecks, cutting page load times by 32% and improving Lighthouse performance scores from 86 → 95.

DevOps Engineer Aug. 2024 – Nov. 2024

Sahu Technologies *Navi Mumbai, Maharashtra*

- Automated repetitive operational tasks using Python scripts, improving workflow efficiency by 12%
- Configured and monitored AWS resources to maintain reliability and scalability of deployments.
- Contributed to application deployment automation ensuring consistent and reliable configurations.

Junior Cloud Intern June. 2024 – Aug. 2024

Sahu Technologies *Navi Mumbai, Maharashtra*

- Supported configuration and monitoring of AWS cloud infrastructure for collaborative projects.
- Developed small-scale automation scripts for deployment and maintenance tasks.
- Assisted DevOps team in improving uptime and deployment consistency.

Volunteer Jan. 2023 – Jan. 2024

Leo Club of Juhu *Mumbai, Maharashtra*

- Organized community service and awareness initiatives promoting social responsibility among youth.
- Coordinated event logistics and digital outreach campaigns to improve participation and impact.

Projects

SpendSense: Energy Efficient DevOps using ML | 2025

* Tech Stack : Ansible, Terraform, Docker, Prometheus, Grafana, AWS, Slack, GitHub Actions
* Developed a full-stack AI-Ops cloud cost management platform providing AI-driven optimization suggestions for AWS resources.
* Implemented a CI/CD pipeline with GitHub Actions running Ansible playbooks on every push for automated deployment.
* Used Terraform for IaC provisioning of EC2 and S3 resources and containerized the monitoring stack (Prometheus, Grafana) with Docker.
* Integrated Slack notifications for real-time anomaly detection and reduced monitoring overhead.
* Reduced infrastructure cost by **20%** and improved anomaly detection accuracy by **38%**.
* **Blog:** devops1.hashnode.dev/series/energy-efficient-devops

Aether: An AI-Native, Offline-First IaC Generation Tool | 2025

* Python, Terraform, LangChain, Checkov, Hugging Face
* Built an offline-first CLI tool using a fine-tuned LLM to generate secure Terraform code from natural language prompts.
* Developed an iterative `aether fix` command to automatically correct syntax errors and failed deployments.
* Integrated **Checkov** for DevSecOps scanning of generated IaC code before deployment.
* Benchmarked model performance on IaC-Eval dataset, improving code reliability by **18%**.
* Achieved a **43% deployable success rate** of generated infrastructure code on cloud platforms.
* **Blog:** devops1.hashnode.dev/series/aether-iac

Technical Skills

Programming Languages: Go, Rust, Python, Bash, Java, JavaScript, HTML, CSS, .NET
Cloud Platforms: Microsoft Azure, AWS, Oracle Cloud (OCI)
Frameworks & Libraries: React.js, Node.js, Express.js, Flask, LangChain, PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib
DevOps & SRE Tools: Docker, Ansible, Terraform, Kubernetes, Prometheus, Grafana, ELK Stack, Datadog
AI & MLOps: Vector Databases (FAISS, Pinecone), Scikit-learn, Pandas, NumPy, Fine-tuning LLMs, GenAI, LangChain, LangGraph
Database Technologies: SQL (PostgreSQL), NoSQL (DynamoDB, MongoDB, Redis), Graph Databases (Neo4j), NewSQL (TiDB)
Version Control: Git, GitHub, GitLab, Postman

Certifications

Oracle Cloud Infrastructure DevOps Professional | *Oracle*	Sept. 2025
Oracle Cloud Infrastructure AI Foundations Associate | *Oracle*	Aug. 2025
Oracle Cloud Infrastructure Foundations Associate | *Oracle*	Aug. 2025
Neo4j Certified Professional | *Neo4j*	July 2025
Neo4j Graph Data Science Certified Professional | *Neo4j*	July 2025
Certified TiDB Practitioner | *TiDB*	June 2025

Publications

Regularly publish DevOps and Cloud Automation articles on Hashnode.
Active on LinkedIn, sharing weekly project progress and technical insights.