

# Anurag Kumar

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## Education

### Shri Shankaracharya Technical Campus

Bachelor of Technology in Computer Science & Engineering, AI/ML; **CGPA: 8.2/10.0**

Bhilai, India

Aug 2021 – July 2025

## Professional Experience

### Bhilai Steel Plant

Linux System Administrator & DevOps Engineering Intern

Bhilai, India

Oct 2024 – Dec 2024

- Designed and maintained scalable cloud infrastructure on AWS and GCP achieving 99.9% uptime for production workloads
- Built CI/CD pipelines using Jenkins and GitHub Actions with automated testing, reducing deployment time by 70%
- Containerized 8+ applications with Docker and managed Kubernetes clusters with auto-scaling and load balancing
- Implemented Infrastructure as Code using Terraform to provision resources across dev, staging, and production
- Set up monitoring with Prometheus and Grafana creating custom dashboards, reducing incident response time by 50%
- Developed data pipelines with Apache Airflow and DBT processing 100,000+ records daily for ML/AI workflows

## Technical Projects

### Cloud-Native CI/CD Pipeline with Kubernetes | Jenkins, Docker, Kubernetes, Helm, ArgoCD, AWS

🐙 GitHub

- Built end-to-end CI/CD pipeline with Jenkins and GitHub Actions for automated testing, building, and deployment
- Containerized full-stack blog application using Docker multi-stage builds, reducing image size by 60%
- Deployed on AWS EKS with Helm charts implementing rolling updates and ArgoCD for GitOps-based deployments

### ML/AI Data Pipeline Infrastructure | Apache Airflow, DBT, Python, AWS, Terraform

🐙 GitHub

- Built production-ready ETL pipeline using Apache Airflow and DBT processing 50,000+ records daily with data quality checks
- Deployed on AWS using Terraform IaC with Kubernetes auto-scaling handling 3x traffic spikes seamlessly
- Integrated Prometheus and Grafana monitoring reducing MTTR by 60% with automated alerting

### Event-Driven Microservices Platform | Java, Spring Boot, Apache Kafka, Docker, AWS

🐙 GitHub

- Engineered asynchronous notification system using Apache Kafka processing 5,000+ messages/hour
- Implemented retry mechanisms with exponential backoff improving reliability from 92% to 99.8%
- Deployed to AWS ECS achieving sub-100ms latency; integrated SendGrid API handling 15,000+ daily notifications

### Database Migration & Validation Toolkit | Python, SQL, MySQL, PostgreSQL, MSSQL

🐙 GitHub

- Created Python toolkit for automated data migration across MySQL, PostgreSQL, and MSSQL with schema mapping
- Optimized queries with advanced indexing and batch processing, reducing processing time by 40% for 1M+ records

## Technical Skills

**Languages:** Java, Python, JavaScript, Node.js, C++, Bash/Shell Scripting, SQL

**Cloud Platforms:** AWS (EC2, S3, Lambda, EKS, RDS, CloudWatch, IAM), Google Cloud Platform, Microsoft Azure

**DevOps & CI/CD:** Docker, Kubernetes, Helm, Jenkins, GitHub Actions, GitLab CI, ArgoCD, Terraform, Ansible

**Databases:** PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, Cassandra

**Frameworks:** Spring Boot, Hibernate, Express.js, Apache Kafka, Apache Airflow, DBT

**Monitoring:** Prometheus, Grafana, ELK Stack, CloudWatch, Alertmanager

**System Administration:** Linux (Ubuntu, CentOS, RHEL), Apache, NGINX, Performance Tuning

**Certifications:** AWS Certified Cloud Practitioner — Google Foundations of Cybersecurity