Prathamesh Chikkali

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SUMMARY

Performance-driven B.Tech Computer Science student specializing in Cloud Computing and DevOps. Experienced in architecting scalable cloud solutions, container orchestration using Docker and Kubernetes, and automating CI/CD pipelines. Strong foundation in Distributed Systems and Linux internals to bridge development and operations efficiently.

TECHNICAL SKILLS

Cloud Platforms: AWS (EC2, S3, RDS, Lambda), Google Cloud Platform (GCP)

DevOps & CI/CD: Jenkins, GitHub Actions, GitLab CI, Docker, Kubernetes

Infrastructure as Code: Terraform, Ansible (Basic)

Monitoring & Logging: Prometheus, Grafana, ELK Stack

Core Systems: Linux/Unix Administration, Bash Scripting, TCP/IP, DNS, Load Balancing

Programming: Java, Python (Automation), Go (Basic)

CLOUD & DEVOPS PROJECTS

SolarCloud — Optimized Research Cloud Architecture

- Designed a hybrid cloud architecture focused on high availability and fault tolerance for research data processing.
- Implemented AWS S3 Lifecycle tiering policies, reducing legacy storage costs by 40%.
- Configured VPC peering and Security Groups to secure communication between research nodes and industry endpoints.

Nexus — Automated CI/CD Pipeline for Microservices

Jenkins, Docker, GitHub, AWS EC2

- Engineered a Blue-Green deployment pipeline automating build, test, and production rollout for a Java microservice.
- Built multi-stage Dockerfiles reducing image size by 60%, improving deployment speed.
- Integrated Prometheus and Grafana dashboards with automated alerts for CPU and memory spikes.

KubeScale — Elastic Web Application Deployment

Kubernetes, Nginx, FastAPI, Redis

- Deployed a containerized web app on Kubernetes with Horizontal Pod Autoscaling (HPA) for dynamic traffic handling.
- Configured Nginx Ingress Controller for load balancing and SSL termination.

EXPERIENCE & RESEARCH

Cloud Architecture Research — Collaboration with Solar Industries

- Assisted in analyzing cloud-native HPC architectures.
- Conducted benchmarking of load-balancing algorithms to optimize distributed data throughput.

Samarthana Hackathon — 1st Place Winner

- Led DevOps automation using GitHub Actions, enabling continuous integration during a 24-hour sprint.

ACHIEVEMENTS & CERTIFICATIONS

- Level 4 CodeChef; 5-Star in Java and Python on HackerRank.
- NPTEL Data Structures and Algorithms in Python.
- Full-Stack Development (Python) – EduSkills.
- Preparing for AWS Certified Solutions Architect – Associate.

EDUCATION

Shri Ramdeobaba College of Engineering and Management, Nagpur
B.Tech. in Computer Science (AI & ML)   CGPA: 8.65
2023 – 2027