Anuj Verma

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Technical Skills

- **Cloud Platforms:** AWS
- **DevOps Tools:** Docker, Kubernetes, Git, CI/CD, Jenkins, Terraform, Ansible
- **Programming:** Java, Python, C, C++
- **Operating Systems:** Windows, Linux
- **Soft Skills:** Proactive, Communicative, Disciplined, Dynamic, Insightful, Strategic, Time-Efficient, Competitive

Work Experience

Intern – DevOps Engineer | Shiwansh Solutions
Feb 2025 – Aug 2025

- Worked on multiple SaaS-based DevOps pipelines for platforms like ***ems.shiwansh.com*** and ***shiwansh.com***
- Developed and maintained CI/CD pipelines using Jenkins, GitHub webhooks, and shell scripts for automated deployments.
- Integrated deployment flows with Dockerized applications, supporting backend services and static frontends.
- Managed infrastructure and deployment configurations using Ansible and Terraform across cloud environments.
- Collaborated with developers to improve pipeline efficiency, rollback strategies, and error handling.
- Gained hands-on experience in managing production-ready systems with zero-downtime deployments and real-time monitoring.

Personal Projects

Project 1: Book Store OTEL App with Observability using Docker Compose

• Built a Node.js-based Book Store application with PostgreSQL as the relational database backend.
• Utilized Docker Compose to orchestrate services including the app, database, and observability stack.
• Implemented OpenTelemetry SDKs to instrument the application for tracing and metrics collection.
• Set up Prometheus, Loki, Tempo for scraping metrics, logs and traces and Grafana for real-time dashboard visualization.
• Enabled complete monitoring of API performance, query traces, and error tracking across containers.
• Designed APIs for book listing, ordering, and inventory management with structured logging and trace context propagation.

Project 2: AWS Infrastructure Automation using Terraform with Custom VPC and EC2-based Load Balancer

• Provisioned a complete AWS infrastructure using Terraform, including a custom VPC, subnets, route tables, and an internet gateway for network access.
• Launched EC2 instances, including one configured as a basic load balancer to forward traffic to backend EC2 servers.
• Created and attached security groups with specific inbound rules for web traffic and SSH access.
• Used modular Terraform scripts and state management to ensure repeatable, scalable infrastructure deployments with minimal manual intervention.

Project 3: System Monitoring using Node Exporter, Prometheus, and Grafana

• Deployed Node Exporter on a Linux-based remote server to collect system-level metrics such as CPU, memory, disk, and network usage.
• Configured Prometheus to scrape metrics from Node Exporter at regular intervals using static job configuration.
• Set up Grafana and integrated it with Prometheus as a data source for real-time visualization and analysis.
• Designed and customized Grafana dashboards to monitor system health and performance metrics effectively.

Project 4: Apache Web Server Deployment using Jenkins Pipeline and Ansible

• Configured a Jenkins Declarative Pipeline to trigger on Git push events and automate the deployment workflow end-to-end.
• Created Ansible Playbooks to install Apache HTTP Server, manage service state, and deploy updated website files to a remote server.
• Integrated Jenkins with Ansible over SSH using inventory files for remote provisioning and deployment.
• Set up Slack integration to notify build approval requests and alert about pipeline success or failure in real-time.
• Performed post-deployment testing using curl to validate the availability and functionality of the web server.

Education

Chandigarh University **Aug 2021 – June 2025**
Bachelor of Engineering in CSE Hons. (Cloud Computing) *Gharuan,Mohali*
CGPA – 7.50