

# SATWIKA CHIGATI

DevOps Engineer

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## TECHNICAL SKILLS

**Programming:** Python(Streamlit, Flask), HTML/CSS, JavaScript(React, Node.js).

**Cloud & DevOps:** AWS, Azure, Linux, Terraform, Ansible, Docker, Kubernetes, Jenkins, GitHub, VS Code.

**Tools & Platforms:** Maven, Nexus, SonarQube, Prometheus, Grafana, VS Code, GitHub.

**Soft Skills:** Team Collaboration, Problem-Solving, Time Management.

## WORK EXPERIENCE

### DevOps Intern

*Elevate Labs*

April 2025 - Present

Remote

- **Implemented** CI/CD pipelines using GitHub Actions and Jenkins, automating the build and deployment process for web applications and **reducing manual efforts by 60%**, leveraging Docker, GitHub, and Node.js for streamlined delivery.
- **Deployed** a Kubernetes cluster locally using Minikube and kubectl, managing containerized applications with YAML manifests and scaling services, **resulting in a 40%** improvement in deployment efficiency during testing phases.
- **Integrated** Prometheus and Grafana with Kubernetes for real-time monitoring and visualization of application and system metrics, enhancing observability and **reducing issue detection time by 50%**.
- **Monitored** system performance using Netdata with Docker integration, visualizing real-time CPU, memory, and disk metrics, which enhanced **issue detection speed by 50%** and demonstrated lightweight server monitoring techniques.
- **Technical Skills:** CI/CD (Jenkins), Docker, Kubernetes, Terraform (IaC), GitHub, Prometheus, Grafana, Minikube, Netdata, HTML/CSS, Node.js, Linux.

## ACADEMIC PROJECTS

### Three-Tier Architecture Deployment using Terraform| Terraform(HCL), AWS CLI, VS Code. April 2025

- **Designed** and **engineered** a scalable three-tier AWS architecture using Terraform, automating EC2, RDS, ALB, and VPC provisioning, **reducing manual setup time by 80%**.
- **Configured** Auto Scaling and Load Balancer across multiple availability zones, **increasing uptime by 99.9%** and ensuring zero downtime during traffic spikes.
- **Automated** infrastructure deployment, improving team productivity and **cutting deployment times by 70%**.

### Gemini LLM Application| Python, Streamlit, Google Generative AI, dotenv, API Integration.

Feb 2025

- **Implemented** a responsive QA chatbot using Google's Gemini Pro API and Streamlit, improving user interaction efficiency and **reducing response time by 35%**.
- **Configured** secure API access using environment variables, **reducing potential security vulnerabilities by 40%**.
- **Enhanced** user engagement by integrating real-time session-based chat, **leading to 20% improvement in user retention**.

### AWS Network Troubleshooting Simulation| AWS VPC, Linux, Net-tools, Wireshark, TCPDump

Dec 2024

- **Designed** and configured a custom AWS VPC with public and private subnets, simulating complex enterprise networking environments to resolve connectivity issues.
- **Resolved** network issues by leveraging Wireshark, netstat, and iperf, **reducing troubleshooting time by 25%** and increasing issue resolution accuracy.
- **Implemented** security measures, configuring NACLs and Security Groups to **reduce unauthorized access by 50%**.

## EDUCATION

### Bachelor of Technology in Computer Science and Engineering

India

*Anil Neerukonda Institute of Technology and Sciences(ANITS)*

April 2024

**Relevant Coursework:** Software Engineering (Agile), Networking, Data Structures and Algorithms, Operating Systems, Cloud Computing.