

VANSH GOEL

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Summary

Computer Science undergraduate at IIIT Naya Raipur with hands-on experience building backend services, deployment automation, cloud infrastructure, and production systems. Skilled in Python, FastAPI, JavaScript, Docker, Git, CI/CD, and cloud platforms, with experience developing automation platforms and developer tooling. Interested in building AI-powered software products and scalable backend systems.

Education

International Institute of Information Technology, Naya Raipur

Aug 2023 - June 2027

Bachelor of Technology in Computer Science

CGPA: 8.35/10.00

Experience

Devnagri - DevOps Intern

April 2026 - Aug 2026

- Managed Linux-based production and development infrastructure across **30+ VMs and services** on **Google Cloud Platform (GCP)**, handling application deployments, server administration, troubleshooting, and production service recovery.
- Designed and implemented **CI/CD pipelines using Jenkins and Git** for Next.js, Laravel, and Python applications, building **4 pipelines** and maintaining **10+**, reducing deployment time from **10 minutes to 4 minutes**.
- Migrated **20+ services from Byobu to PM2** process management, standardizing process supervision and restart handling across production environments.
- Configured and optimized **Nginx and Traefik reverse proxies** across **5 services**, SSL certificates, firewall rules, and GCP networking for secure multi-service application deployments.
- Implemented infrastructure **monitoring and observability using Prometheus, Grafana, Promtail, and Node Exporter**, and analyzed GCP resource utilization to identify cost-optimization opportunities.
- Diagnosed and resolved **20+ production service outages and deployment failures** through log analysis, process debugging, reverse-proxy troubleshooting, and infrastructure-level root cause analysis.

Technical Skills

- **Languages:** Python, JavaScript, C/C++, Go, Java, Bash
- **Backend & APIs:** FastAPI, SQL
- **Cloud & DevOps:** AWS (EC2, S3, IAM, VPC), Google Cloud Platform (Compute Engine, IAM, VPC, Firewall Rules, Cloud Storage), Docker, Docker Compose
- **CI/CD & Automation:** Jenkins, GitHub Actions, Terraform, Ansible
- **Systems & Tools:** Linux, Git, GitHub, Nginx, Traefik, PM2
- **Monitoring & Observability:** Prometheus, Grafana, Promtail, Node Exporter

Projects

AutoDevOps Control | *FastAPI, Docker, Celery, Redis, AWS*

🐙 **Repository**

🔗 **Live Demo**

- Built a mini PaaS platform that deploys applications using repository metadata and user-provided AWS credentials. **2026**
- Designed asynchronous deployment workflows using Celery and Redis for long-running build and provisioning tasks.
- Automated repository cloning, Docker image builds, infrastructure provisioning, and container deployments.
- Applied Platform-as-a-Service (PaaS) principles to simplify deployments on users' AWS accounts.

Cloud IDE Platform | *Docker, FastAPI, GitHub Actions, Docker Compose*

🐙 **Repository**

🔗 **Live Demo**

- Eliminated dependency conflicts between developers by provisioning isolated Docker-based VS Code workspaces on demand. **2026**
- Automated workspace creation, startup, shutdown, and deletion using a FastAPI backend to reduce manual environment management.
- Optimized resource usage using Docker CPU/memory limits and automated idle workspace cleanup mechanisms.
- Prevented accidental workspace data loss by implementing soft-delete and controlled purge workflows.

Certifications

Decoding DevOps – From Basics to Advanced Projects with AI | Udemy

[View Certificate](#)

- Comprehensive **64-hour** hands-on training covering CI/CD, Docker, Jenkins, and cloud automation with practical project implementations.

GitHub Actions – The Complete Guide | Udemy

[View Certificate](#)

- Focused training on designing and automating **CI/CD workflows** using GitHub Actions with real-world pipeline implementations.

Achievements & Competitions

23Ventures Entrepreneurship Challenge 2025 — Second Runner-up

[View Certificate](#)

Ranked among 100+ teams for a scalable startup idea

Shark Tank Chhattisgarh – Young Indian Hub 2025 — Top 15 Finalist

Selected for pitching an innovative project to investors and entrepreneurs