

Vishwa Panchal

+91 8277665467 | thevishwapanchal@gmail.com | [LinkedIn](#) | [GitHub](#)

PROFESSIONAL SUMMARY

DevOps Engineer and Backend Developer specializing in **cloud infrastructure** (AWS EC2, S3, Lambda, RDS, IAM), **CI/CD automation**, and **microservices architecture**. AWS Certified Solutions Architect – Associate with proficiency in **Docker**, **Kubernetes**, **Infrastructure as Code** (Terraform, Ansible), and **Linux system administration**. Strong foundation in **Python**, **FastAPI**, **REST APIs**, and database management (**PostgreSQL**, **MongoDB**).

EDUCATION

R. V College of Engineering

Bachelor of Engineering in Information Science and Engineering

Bangalore, Karnataka

Sept 2024 – May 2028

Government Polytechnic

Diploma in Computer Science and Engineering; CGPA: 9.73/10

Kalaburagi, Karnataka

Aug 2021 – May 2024

TECHNICAL SKILLS

- **Cloud & DevOps:** AWS (EC2, S3, Lambda, RDS, IAM, CloudWatch), Docker, Kubernetes, Jenkins, GitHub Actions, Terraform, Ansible, CI/CD Pipelines, Infrastructure as Code, GitOps, Helm, Azure DevOps
- **Programming:** Python (Advanced), Bash/Shell Scripting, SQL, Java, JavaScript, PowerShell
- **Backend:** FastAPI, REST APIs, GraphQL, Microservices, WebSockets, API Gateway, Serverless Architecture
- **Databases:** PostgreSQL, MongoDB, MySQL, Redis, DynamoDB, FAISS Vector Database, Query Optimization
- **Linux & Systems:** Linux (RHEL, Ubuntu, CentOS), System Administration, VMware, Virtual Machines
- **Monitoring:** Prometheus, Grafana, CloudWatch, ELK Stack, DevSecOps, Network Security

CERTIFICATIONS & TRAINING

AWS Certified Solutions Architect – Associate – Amazon Web Services — [Badge](#)

Google Cloud Platform (GCP) Cloud Arcade – Google Cloud Skills Boost — [Certificate](#)

Networking Basics (TCP/IP, DNS) – Cisco Networking Academy — [Certificate](#)

Data Structures and Algorithms in Python – Udemy — [Certificate](#)

EXPERIENCE

ProLEAP Academy

Remote

R&D Intern – Cloud Engineering & DevOps — Certificate

Jan 2024 – Apr 2024

- Selected as **top performer** from 60+ candidates to work on **cloud infrastructure** using **AWS EC2**, **VMware**, and **Linux system administration** (Ubuntu, RHEL), managing virtual machines and provisioning
- Automated **Linux environments** using **Bash shell scripting** for system administration and monitoring, reducing manual configuration time by **60%**
- Implemented **containerization** using **Docker** and **Kubernetes**, deploying **microservices** with **Helm charts** and managing pod scaling for high availability
- Built **CI/CD pipelines** using **Jenkins** and **GitHub Actions** for automated testing and deployment, reducing deployment time by **70%**

PROJECTS

Cloud-Hosted EL Management Platform | *AWS, FastAPI, PostgreSQL, Docker*

[GitHub](#)

- Deployed **backend application** on **AWS EC2** using **Linux system administration**, **Docker containerization**, and environment configuration achieving **99.9% uptime**
- Engineered **REST APIs** using **FastAPI** and **PostgreSQL** database with optimized SQL queries to handle **10,000+ concurrent requests**
- Integrated **FAISS Vector Database** and ML model for automated plagiarism detection, reducing manual review time by **80%**
- Configured **AWS Security Groups**, **IAM roles**, and **CloudWatch monitoring**, reducing MTTR by **50%**

Gram Sahayak: Digital Governance System | *FastAPI, MongoDB, WebSockets*

[GitHub](#)

- Architected **microservices-based platform** using **FastAPI REST APIs**, **MongoDB NoSQL**, and **event-driven architecture**, supporting **5,000+ concurrent users**
- Implemented geo-spatial tracking using MongoDB geospatial queries for real-time location-based services
- Built real-time communication using **WebSockets**, reducing response time by **90%**; developed AI chatbot with multilingual support
- Containerized with **Docker** and implemented **CI/CD pipeline** with **GitHub Actions**, reducing release cycles from weeks to hours