





Sathwik Kumar Shetty

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SUMMARY

Backend and DevOps enthusiast skilled in building scalable full-stack systems with CI/CD pipelines, containerization, and cloud deployments. Passionate about solving real-world problems through microservices and automation. Currently expanding into Machine Learning to bring intelligence to backend systems.

EDUCATION

Dayananda Sagar College of Engineering, Bengaluru <i>B.E. in Artificial Intelligence and Machine Learning</i>	2023 – 2027 CGPA: 9.45
Jyothi Kendriya Vidyalaya, Bengaluru <i>KSEEB Board</i>	2021 – 2023 Percentage: 93.9

SKILLS

Languages: C, C++, Python, Go, Java, Solidity

Frameworks: Django, DRF, Flask, FastAPI, Gin

Tools: Git, Docker, Kubernetes, Jenkins, Celery, Railway, Hardhat, Metamask

Databases/Cloud: MySQL, SQLite, Redis, PostgreSQL, MongoDB, Azure, PythonAnywhere

Interests: Backend Systems, DevOps, Microservices, ML, System Design

PROJECTS

InterXAI (GitHub) Django, OpenCV, Redis, Docker – Designed a modular, microservice-based AI interview platform with pluggable agents using LangChain and prompt templates for structured evaluation. – Built a safe fallback workflow to ensure interview continuity in case of agent or API failures. – Integrated real-time malpractice detection using OpenCV to detect tab switches, multiple faces, and unauthorized refreshes. – Created an internal admin interface for organizations to configure question sets and view confidence scores derived from multi-agent evaluation logic.	2024
FeedTrack (GitHub) Django, FastAPI, Docker, PostgreSQL, FAISS, Ollama – Developed for digitizing the feedback system of my college department, replacing paper-based processes with a scalable, AI-enhanced platform. – Multi-role access: Admins (system analytics), Teachers (course analysis), Students (feedback submission), and Public (open submissions). – Used Django for core system and FastAPI for AI-driven analysis service (sentiment analysis, RAG-based insight extraction). – Implemented custom async task architecture with ThreadPoolExecutor and in-house async queue for scalable processing. – Integrated FAISS vector search and Ollama LLM for fast vector-based queries and feedback understanding. – Containerized with Docker Compose, using Nginx as reverse proxy for Django + FastAPI microservices. – Database schema is 5NF-compliant, ensuring referential integrity and performance.	2025

- JanGo (GitHub) | Go, Terraform, Ansible, GitHub Actions, Azure, React

2025
- Built a one-click Django deployment tool with automatic CI/CD pipeline provisioning on Azure VMs.
 - Used Go backend orchestration to trigger Terraform (VM/Create resource groups/SSH keys), and execute Ansible playbooks for Nginx, Supervisor, Python setup.
 - Developed a React dashboard showing real-time deployment logs and status; integrated GitHub Actions via API for push-to-deploy pipelines.
 - Smart detection of WSGI vs ASGI apps (Gunicorn/Uvicorn) and secure production setup (Nginx rate limiting, SSH key auth).
 - Infrastructure as Code with Terraform; Terraform templates for VM sizing, networks, security groups, storage, and auto-shutdown.
- ArogyaKhosh (GitHub) | Django, React, Solidity, Infura, Pinata

2025
- Hybrid electronic health record system integrating web tech with blockchain for secure and verifiable record storage.
 - Deployed on Sepolia testnet using Infura; uses Pinata for document storage and React for frontend.
 - Also features emergency response via QR and accident detection using ML model.

OPEN SOURCE CONTRIBUTIONS

- GoFr Framework – OpenTSDB Migration Support (GitHub) | Go, OpenTSDB

2025
- Contributed OpenTSDB migration support to the core of the **GoFr** microservice framework.
 - Implemented shell-backed migration support and schema handling for OpenTSDB, ensuring seamless time-series DB compatibility.
 - Wrote unit tests using ‘testify’; resolved static analysis issues flagged by ‘golangci-lint’ (‘errcheck’, ‘err113’).
 - Code merged into upstream repo after collaborative code review and rigorous testing.

EXPERIENCE

- CodeZero - Technical Club, DSCE

2024 – Present
- Co-founder and Co-lead*
 - Organized technical events and workshops. Mentored students in DevOps tools, backend design, and ML basics.
- Private Tutor

2023 – 2024
- Full Stack Instructor*
 - Taught diploma students full-stack development.

ACHIEVEMENTS

- Runner-up – Recurrzive 2.0, flagship hackathon of CSE dept, DayanandaSagar College of Engineering.
- Winner – Algo-Rhythm 2024: Built a full-stack AI interview Bot (42 teams).
- Winner – HacktoCrack: Blockchain-based EHR with accident detection (100+ teams).
- Award of Excellence – Hackabot 2024 sponsored by UiPath. Built FAQ chatbot using Gemini LLM.
- Qualified – Smart India Hackathon 2024: Qualified from college level.
- Top 10 – National-level Hackathons at PES University, SMVIT and National College.
- Winner/Runner-up – 10+ inter/intra-college hackathons and technical competitions.