

Konga Aadisheshu | Software Engineer | AI Systems | Platform Infrastructure

Hyderabad, India

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Professional Summary

Software engineer specializing in end-to-end production environments, applied AI, and automated infrastructure. Proven track record of operating as a solo developer to architect, deploy, and manage multi-tenant platforms, automated disaster recovery pipelines, and self-healing microservices. Deeply experienced with Python, PostgreSQL, Docker, and Linux, transforming raw data and LLMs into resilient, scalable products for real-world users.

Experience

Rubix IT Solution Pvt Ltd

Software Engineer

Hyderabad

Mar 2026 – Present

- Spearheaded the end-to-end development, deployment, and server management for **Nova My Mentor** (novamymmentor.cloud), operating as the sole developer across development and production environments.
- Architected an agentic analytics engine that evaluates student behavioral and academic data to dynamically generate tailored lesson explanations and comprehensive intervention reports for parents and educators.
- Deployed independent AI voice microservices integrating Kokoro TTS and locally hosted speech models, significantly improving human-like voice output for educational content delivery.
- Implemented automated workflow orchestration, including underperforming student identification, parent email reporting, and automated escalation pipelines to school leadership.

Projects

Lead Developer – Acharya Ecosystem (Production Academic Platform)

Python, Django, PostgreSQL, Docker, Linux, React, Local LLMs

Live | GitHub

- Scaled a production academic platform serving **1,700+ registered users** and **50+ faculty**, handling 1k–2k weekly visits normally and **20k+ peak views** during exam periods.
- Reduced faculty attendance workflow from **3–5 hours of manual spreadsheet processing** to **under 1 minute** through one-click submissions and automated reporting pipelines.
- Built **70+ production REST APIs** and a self-service API framework enabling authenticated users to create custom programmatic integrations.
- Integrated a locally deployed LLM assistant managing **50+ daily academic support queries**, including autonomous workflows for attendance and schedule tasks.

Nidhi – Zero-Touch DBaaS & Infrastructure SDK

Python, PostgreSQL, MinIO, Docker Compose, Nginx, OIDC

- Engineered a custom infrastructure SDK enabling applications to self-register and auto-provision isolated databases and MinIO buckets, slashing infrastructure deployment time from **2–3 hours of manual configuration** to **under 1 minute**.
- Architected a **3-layer resilient backup pipeline** featuring instant replication, 24-hour delayed disaster recovery states to prevent data poisoning, and encrypted daily backups automatically exported via Telegram.
- Eliminated manual configuration bottlenecks across all environments, allowing engineering efforts to focus entirely on core application logic.

Internal Developer Platform (Nirikshan, Vault & Saransh)

Python, API Security, Automation, AI Integration

- **Nirikshan**: Automated scheduled unit, integration, and smoke testing pipelines, actively monitoring production health and dispatching instant Telegram alerts to ensure rapid issue resolution.
- **Vault**: Centralized cross-environment secret management, dropping configuration overhead to **zero hours per deployment** while strictly injecting encrypted credentials only into authenticated applications.
- **Saransh**: Built an API-driven memory engine that drastically reduced the time required to maintain AI agent context, enabling autonomous models to read and update versioned documentation without destructive overwrites.

Education

JNTUH University College of Engineering

B.Tech in Computer Science (AI & ML), Graduated: May 2026

2022–2026

Government Polytechnic College

Diploma in Computer Engineering, CGPA: 6.8

Technical Skills

Programming: Python, SQL (PostgreSQL), JavaScript (Basics), Java (Basics), Bash

Backend: Django, REST APIs, Authentication, Microservices, API Integration

Databases: PostgreSQL, MinIO, Relational Design, Query Optimization, Disaster Recovery

Infrastructure: Linux Server Admin, Docker Compose, Nginx, Self-Hosted Deployments, CI/CD

AI / Data: Pandas, Scikit-learn, Local LLM Deployment, Agentic Workflows, TTS Synthesis

Tools: Git, GitHub Actions, Postman, Supabase

Certifications

- IBM – Introduction to Containers, Kubernetes, and OpenShift
- IBM – Docker Essentials
- ISC2 – Certified in Cybersecurity (Candidate)
- Google Cloud – MLOps for Generative AI
- Kaggle – Python