

N Shashi Kumar

Hyderabad | Ph: +91 7989265399 | Email: Shashinarmala29@gmail.com | [Github](#) | [Linkedin](#)

OBJECTIVE

Motivated and detail-oriented fresher aspiring to start a career as a DevOps Engineer. Eager to apply foundational knowledge of CI/CD, cloud platforms, Linux, and scripting to support efficient software delivery. Passionate about learning modern DevOps tools and practices to help teams build, deploy, and scale applications reliably

EDUCATION

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| Avanthi Institute of Engineering and Technology | Hyderabad |
| Bachelors in Computer Science Engineering – Data Science | SEP 2021 – 2025 |
| <ul style="list-style-type: none">Relevant Coursework: Software Engineering , Machine Learning , Computer Networks , Database Management Systems , Cloud Computing, Data Mining . | |

EXPERIENCE

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| Junior DevOps Engineer – Contract | Feb 2025 – July 2025 |
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| Vtex.AI | Remote, India |
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- Developed robust automated testing pipelines using GitHub Actions, integrating SAST (Static Application Security Testing), UAT (User Acceptance Testing), and regression testing to maintain high code quality throughout the CI/CD process.
- Implemented Canary deployments with automated rollback mechanisms, ensuring zero-downtime releases and enabling safe, progressive feature rollouts using version tagging.
- Streamlined automated GitHub releases and semantic versioning across a multi-repository architecture, improving deployment traceability and collaboration.
- Designed and implemented a production-ready CI/CD pipeline using Jenkins to automate the build and deployment of a Python-based application on AWS ECS, reducing manual effort by over 90%.
- Built a fully containerized architecture with Docker and Amazon ECR, optimizing image size and ensuring consistent deployment across environments.
- Provisioned cloud infrastructure using Terraform, automating tasks such as ECS cluster setup, IAM role creation, networking, and CloudWatch log configuration—following Infrastructure as Code (IaC) best practices.
- Integrated CloudWatch Logs and ECS service monitoring, enhancing system observability and reducing issue resolution time by 70%.
- Achieved an 80% reduction in deployment time while maintaining zero downtime, significantly improving the release process and user experience.

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| <u>Kitikiplot</u> | March 2025 |
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- Kitikiplot is a python open source library with more than 6K+ Installations and Recognized by FOSS
- Developed Python Unit test cases using Pytest Ensuring Code Quality
- Implemented a Automated Github Actions Pipelines for Automated Tests

PROJECTS

- DocuMind – AI-Powered Document Q&A System** January 2025
- Developed a FastAPI-based backend that enables users to upload PDFs or text files, extract content, and perform intelligent question-answering using OpenAI GPT-4 and LangChain workflows.
 - Integrated Pinecone for embedding storage and Supabase for metadata, automating document ingestion, chunking, and retrieval pipelines, resulting in a 60% improvement in contextual response accuracy.
 - Containerized the backend using Docker and deployed it on Render with GitHub Actions-based CI/CD for seamless version control and scalability.
- VoiceQuery – Voice-Driven Knowledge Assistant** November 2025
- Built an interactive AI assistant using FastAPI that combines OpenAI Whisper for speech-to-text, GPT-4 for reasoning, and ElevenLabs TTS for generating natural spoken responses.
 - Integrated LangChain for contextual prompt flow management and Chroma DB for semantic vector storage, enabling low-latency conversational retrieval across voice queries.
 - Deployed the complete pipeline on Render using Docker and implemented CI workflows for continuous delivery and version tracking.

TECHNICAL SKILLS

- **Languages:** Python,C++,js
- **Operating Systems:** Linux,Windows
- **Cloud Platforms:** AWS,AZURE
- **CI/CD Tools:** Jenkins, Github Actions
- **Container Orchestration:** Docker , Kubernetes
- **IAC:** Terraform