

# PAVAN KUMAR V

Junior DevOps Engineer

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## PROFESSIONAL SUMMARY

- Junior DevOps Engineer with **2+ years of progressive experience** in application deployment, infrastructure automation, server management, log monitoring, and scripting in production and industrial environments.
  - Skilled in **Linux-based deployments**, Python and Shell automation, database operations, and ensuring high-availability systems integrated with PLC-controlled manufacturing lines.
  - Experienced in transitioning from application support and IoT development to core DevOps practices.
  - Hands-on contributions to **CI/CD workflows**, containerization experiments (Docker), and cloud basics (AWS EC2/S3).
  - Passionate about building **scalable, automated pipelines** to enhance deployment reliability, reduce downtime, and improve overall operational efficiency.
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## TECHNICAL SKILLS

- Cloud & Infrastructure: AWS Basics (EC2, S3), Linux Server Management, Docker, Kubernetes Basics
  - CI/CD & Automation: Jenkins, Git/GitHub, Python Scripting, Shell Scripting
  - Monitoring & Logging: Log Analysis, Server Performance Monitoring, Grafana Basics
  - Databases: MySQL, DBeaver, SQL Query Automation, VS Code
  - Other DevOps Tools: Terraform (Learning), GitOps Principles
  - Core Skills: Application Deployment, Troubleshooting, IoT/Edge Deployment, PLC Integration
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## PROFESSIONAL EXPERIENCE

### **Junior DevOps Engineer**

**Sense-Ops Tech Solutions - Bangalore, India (Aug 2023 – July 2025)**

**Client: Hero MotoCorp Vida Electric Vehicle Battery Project**

- Automated deployment processes for manufacturing applications on production Linux servers using Python and Shell scripts, minimizing downtime in live plant operations connected to PLC-controlled CNC machines.
- Monitored server performance, conducted in-depth log analysis, and resolved issues proactively to maintain 99%+ application stability in high-volume EV production environments.
- Built and maintained real-time monitoring dashboards using Grafana to visualize key operational data server metrics, production line status, and application performance, enabling faster decision-making and proactive issue detection for the client team.
- Designed and executed data validation workflows with DBeaver and SQL on MySQL databases, preventing data discrepancies and ensuring operational integrity.

- Performed comprehensive manual testing, bug identification, and documentation prior to deployments, coordinating with cross-functional teams for smooth releases
  - Served as primary client contact for technical queries, generating and delivering operational reports to support decision-making.
  - Explored containerization with Docker for application portability and consistency across environments.
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### DevOps & IoT Intern

Sense-Ops Tech Solutions, Bangalore, India

May 2023 – July 2023

- Developed automation scripts in Python for deploying and configuring IoT applications on Raspberry Pi and embedded Linux devices.
  - Set up version control workflows with Git, enabling team collaboration and reproducible builds for hardware-software prototypes.
  - Performed end-to-end testing, debugging, and log-based troubleshooting, laying foundation for reliable deployment practices
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## PROJECT EXPERIENCE

### Automated Deployment Pipeline for EV Manufacturing Application (Production Project)

- Built Shell and Python-based automation for deploying applications to production servers integrated with PLC systems.
- Implemented log monitoring scripts and database validation checks, simulating CI/CD stages for zero-downtime releases.
- Result: Streamlined deployments in a high-stakes manufacturing environment supporting EV battery production.

### Dockerized IoT Monitoring System – Industrial 3D Scanner

- Containerized a Raspberry Pi-based 3D scanner application using Docker for portable deployment.
- Automated data pipeline from LiDAR sensors to MySQL database with Python scripts, including basic orchestration testing.
- Added log aggregation and alerting, demonstrating DevOps principles in edge computing.

### CI/CD Experiment with Jenkins & Docker (Personal DevOps Project – 2025)

- Set up a Jenkins pipeline for a sample web application, integrating Git, Docker builds, and automated testing.
- Deployed to local Kubernetes cluster, achieving automated blue-green deployments.
- Incorporated monitoring with Prometheus basics for container health checks.

### Cloud Infrastructure Basics on AWS (Self-Learning Project – Ongoing)

- Provisioned EC2 instances and S3 storage using AWS Free Tier, with basic Terraform scripts for IaC.
  - Deployed a simple Python application with automated setup via Shell scripts.
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## EDUCATION

Bachelor of Engineering in Mechatronics Engineering

The Oxford College of Engineering, Bangalore

Graduated: August 2023 | GPA: 6.5