PRAKASH PERUMANDLA

PYTHON DEVELOPER | SRE | AIOPS | MLOPS | APPLICATION DEVELOPER

Mobile: +91 9676348543 | **Email**: prakashreddy7329@gmail.com
Linkedin: https://www.linkedin.com/in/prakash-reddy-055864154/ | Hyderabad, Telangana

---

PROFESSIONAL SUMMARY

Results-driven Site Reliability Engineer (SRE) and DevOps Engineer with 4.5 years of expertise in Python development, cloud infrastructure management, CI/CD pipeline automation, and incident response for enterprise environments. Proven ability to design, deploy, and maintain high-availability, scalable systems in AWS and Azure. Experienced in AI/ML toolchains, LLM fine-tuning, and AIOps/MLOps implementations, including freelance consulting for a tech startup on AI infrastructure operations and MLOps pipelines. Adept at improving system reliability, streamlining deployment processes, and optimizing operational efficiency. Microsoft Azure Administrator Associate (AZ-104) certified.

EDUCATION

Bachelor of Technology (B.Tech)| National Institute Of Technology, Puducherry (NITPY) | Aug 2017 to May 2021
CGPA: 7.22 / 10 (Equivalent: 72.2%)

PROFESSIONAL EXPERIENCE

TATA CONSULTANCY SERVICES | July 2021 - Present
Site Reliability Engineer | DevOps Engineer | Python Developer

- Led end-to-end DevOps automation and delivery initiatives for enterprise clients, improving deployment reliability and accelerating release cycles for Staples Advantage and British Telecom.
- Built and optimized CI/CD pipelines using GitLab and Jenkins, reducing deployment time by 40% and enhancing build stability, version control, and release governance.
- Automated infrastructure provisioning and configuration management with Terraform and Ansible, enabling consistent, repeatable, and scalable environment setup across cloud and on-prem platforms.
- Designed and managed cloud infrastructure on AWS and Azure, implemented Docker-based containerization, and deployed microservices using Kubernetes.
- Improved system performance by optimizing build processes, deployment workflows, and automation scripts, while collaborating with development, QA, and architecture teams to implement DevOps best practices and standardize workflows that increased delivery throughput.
- Served as a Python developer for British Telecom, resolving critical issues in the EAD2 fibre-upgrade program by developing automation scripts to streamline upgrades and eliminate configuration conflicts.
- Implemented automated release validation, quality gates, and rollback strategies to ensure zero-downtime deployments and reliable production releases.
- Integrated Splunk for monitoring, alerting, and log analytics, improving observability, incident detection, and operational efficiency.

Key Projects

- Staples Advantage (Retail): Focused on reliability engineering, continuous monitoring, incident management, and CI/CD improvements.
- British Telecom: Led DevOps practices, cloud resource optimization, and deployment process enhancements, serving as a key Python developer for critical automation and upgrade workflows.

IOLAR TECHNOLOGIES PVT. LTD. | DEC 2019 - SEP 2020

Intern - Application Developer (Python Django)

- Developed RESTful APIs using Django (MVT architecture) for scalable backend applications.
- Designed and optimized database models for performance and data integrity.
- Gained practical experience with Docker, AWS, Git, and CI/CD automation pipelines.

LEGO VERSE MODULES PVT. LTD. | AUG 2024 - FEB 2025

Freelance AIOps/MLOps Engineer
- Developed scalable APIs using Python FASTAPI and deployed containerized apps via Docker on AWS.
- Built and fine-tuned LLMs (using Hugging Face, LangChain, LangGraph, RAG, Ollama) for enhanced performance.
- Integrated AI solutions into production-grade infrastructure, ensuring reliability and scalability
- Automated model deployment and monitoring pipelines for seamless MLOps operations

---

CERTIFICATIONS

- **Microsoft Certified:** Azure Administrator Associate (AZ-104)
  Certification ID: ADD163-4DVD5B

TECHNICAL SKILLS

- **Programming Languages:** Python (OOP), DSA (Data Structures and Algorithms)
- **DevOps & Cloud:** Docker, Git, GitLab, Jenkins, Terraform, Ansible, Kubernetes, Bitbucket, Splunk, Jira, Confluence,Shell/Bash Scripting, Linux, AWS, Azure, System Design
- **CI/CD & Automation:** CI/CD Pipelines, Infrastructure as Code (IaC), Automation Runbooks
- **Backend Frameworks:** Django, FASTAPI, REST API, GraphQL
- **AI / ML / AIOps / MLOps:** Huggingface Transformers, LangChain, LangGraph, Retrieval-Augmented Generation (RAG), Ollama, LLM Fine-tuning, Machine Learning
- **Databases:** MySQL, PostgresDB, MongoDB, Redis
- **Monitoring & Logging:** Incident Management, SLA/SLO/SLI, Error Analysis, System Bottleneck Analysis

---

HOBBIES & INTERESTS

- Paragliding and Travel
- Algorithmic Trading and financial market analysis
- Long-distance cycling and fitness activities