Pavan Padamata

Hyderabad, India | pavanpadmata2002@gmail.com | +919704929063 | linkedin.com/in/pavanpadamata
github.com/pavanpadamata

Summary

Results-driven Computer Science graduate (2025) with hands-on experience in building and managing Linux-based infrastructure, deploying cloud-native applications, and automating development workflows using DevOps practices. Proven ability to work on real-world server and application deployments using tools like Docker, GitHub Actions, and Terraform. Comfortable managing cloud environments (AWS, GCP), writing Python/Bash scripts for automation, and ensuring system uptime, scalability, and security. Passionate about solving infrastructure challenges, streamlining CI/CD pipelines, and contributing to high-performance engineering teams.

Education

BTech in Computer Science, Malla Reddy University, Hyderabad   Sept 2021 – May 2025
- **CGPA**: 8.41/10
- **Coursework**: Data Structures, Algorithms, Operating Systems, Computer Networks, DBMS, Cloud Computing, Software Engineering

Intermediate (MPC), Narayana Jr College, Vijayawada   2019 – 2021
- **Percentage**: 86.4%

High School, Narayana High School, Vijayawada   2019
- **CGPA**: 10.0/10

Experience

Freelance DevOps Engineer & Linux System Administrator (Remote)   May 2023 – Present
Upwork & Independent Clients
- Designed and managed scalable Linux-based cloud infrastructure (Ubuntu Server), achieving 99.9% uptime via proactive monitoring, cron jobs, and automated backup scripts.
- Deployed and configured open-source tools (e.g., Nextcloud, Invoice Ninja, Gitea) using Docker and Nginx, reducing third-party SaaS costs by 30%.
- Built CI/CD pipelines with GitHub Actions and GitLab CI; automated deployment using Docker Compose and Infrastructure as Code (IaC) with Terraform.
- Managed DNS, SSL/TLS (Let's Encrypt), and Cloudflare configurations to ensure secure, high-availability networking.
- Implemented server hardening, UFW firewall rules, Fail2Ban, and user management to improve system security and compliance.
- Worked directly with startups and SMBs to design DevOps workflows, optimize resource usage on cloud platforms (AWS, GCP), and increase system performance.

Technologies

Programming Languages: Python, Bash (Shell Scripting), C++, Java, SQL
DevOps & Automation: Docker, Docker Compose, GitHub Actions, Terraform (basic), Nginx, CI/CD, Infrastructure as Code (IaC)
Cloud Platforms: AWS (EC2, S3, IAM), GCP (basic), Cloudflare, DNS Management, SSL Configuration
Version Control: Git, GitHub
Operating Systems: Linux (Ubuntu, Server), Systemd, Cron
Monitoring & Security: UFW, Fail2Ban, Server Hardening (basic)
Databases & APIs: MySQL, phpMyAdmin, REST APIs, Postman
Tools: VS Code, Vim, Markdown, Draw.io

Projects

Dockerized Business Tools Suite on Raspberry Pi   github.com/pavanpadamata

- Deployed a self-hosted SaaS alternative stack on Raspberry Pi using Docker Compose with services like Nextcloud, Matrix Synapse, Penpot, and Vaultwarden.
- Configured DNS, Nginx Proxy Manager, and automated SSL certificates with Let's Encrypt; implemented backup automation via shell scripts.
- Hardened the server using UFW, Fail2Ban, and regular OS updates, achieving secure and resilient access over dynamic IP.

CI/CD Pipeline for Dockerized Web Application

- Built a CI/CD pipeline with GitHub Actions and Jenkins for automated building, testing, and deployment of a Python-based containerized web app.
- Integrated Docker image versioning, test automation, and multi-environment deployment workflows aligned with Agile methodology.

AOSP Custom ROM Builds for Android Devices

- Compiled and optimized AOSP-based custom ROMs for Redmi Note 10 Pro and Motorola Edge 30 to improve performance and feature integration.
- Gained expertise with Linux CLI, Git, GitLab CI, ADB, debugging kernel-level logs, and automating builds using shell scripts and VS Code.

Licenses & Certifications

AWS Certified Cloud Practitioner
Amazon Web Services (AWS)

- Validated foundational knowledge of AWS Cloud concepts, services, billing, pricing, and support.

AWS Academy Graduate - Cloud Architecting
AWS Academy

- Gained knowledge in designing cloud infrastructure and core AWS services for enterprise applications.

AWS Academy Graduate - Cloud Foundations
AWS Academy

- Learned fundamentals of AWS cloud, architecture principles, and security best practices.

AWS Certified DevOps Engineer Professional 2025 - DOP-C02
Udemy

- Gained expertise in CI/CD pipelines, automation, infrastructure monitoring, and DevOps best practices on AWS.

Ultimate AWS Certified Solutions Architect Associate 2025
Udemy

- Learned to design scalable, secure, and cost-effective cloud architectures using real-world AWS use cases.

Docker for Absolute Beginners
Udemy

- Gained hands-on experience with containerization using Docker: images, containers, and networking.