

DHEERAJ SINGH RAO

DevOps Engineer | RHCSA Certified

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SUMMARY

DevOps Engineer with 2+ years of experience building CI/CD pipelines, automating Linux-based infrastructure, and delivering production deployments for enterprise and international clients. Skilled in Docker, Jenkins, GitHub Actions, and Bitbucket Pipelines across multi-cloud environments (AWS, Azure, GCP), with additional backend development experience in Python and FastAPI. RHCSA-certified with a strong foundation in system administration, database release management, and infrastructure automation, with a track record of reducing manual effort and accelerating release cycles. Experienced in using AI-assisted engineering tools to improve software development, infrastructure automation, documentation, debugging, and overall engineering productivity.

TECHNICAL SKILLS

- **CI/CD & Automation:** Jenkins, GitHub Actions, Bitbucket Pipelines, CircleCI, Fastlane, Bash, Python, YAML, Infrastructure as Code
- **Cloud & Infrastructure:** AWS (EC2, VPC, ELB, Route53, S3), Azure, GCP, Oracle Cloud Infrastructure (OCI), DigitalOcean
- **Containerization & Orchestration:** Docker, Docker Compose, Kubernetes
- **Linux & Web Servers:** Linux Administration, LEMP/LAMP Stack, Apache, Nginx, Reverse Proxy, SSL/TLS
- **Databases & Release Management:** MySQL, MariaDB, PostgreSQL, MongoDB, Liquibase (schema migrations)
- **Monitoring & Security:** Prometheus, Grafana, New Relic, Zabbix, UptimeRobot, Sophos Firewall
- **Backend Development:** Python, FastAPI, REST APIs, Laravel, Magento/Magento2, Shopware, Node.js
- **Collaboration & Tools:** Git, Jira, Confluence, Docker Hub
- **AI & Developer Productivity:** ChatGPT, Cursor AI, Claude AI, Gemini AI, Copilot AI, Prompt Engineering, AI-Assisted Software Development, AI-Assisted Debugging, AI-Assisted Documentation, AI-Assisted Code Review, AI-Assisted Solution Design

WORK EXPERIENCE

Freelance DevOps & Backend Engineer

Remote | October 2025 – Present

- Deliver DevOps, backend development, and infrastructure consulting for international clients, focusing on CI/CD automation, cloud infrastructure, containerized deployments, and enterprise reporting systems.

Report Management System — [Sentronic GmbH \(Germany\)](#)

- Engineered backend services and REST APIs for an enterprise technical reporting platform using Python and FastAPI, including Live View, Trend View, and History View data visualization.
- Built report generation workflows supporting PDF, Excel, CSV, and raw data exports, along with multilingual and multi-tank reporting logic for industrial measurement data.
- Diagnosed reporting and performance issues, proposed architecture optimizations for large-scale historical data, and collaborated directly with international stakeholders on requirements and validation, maintaining MongoDB as the operational database.

Docker-Based Automation & Reverse Proxy Setup — [Sentronic GmbH \(Germany\)](#)

- Engineered an automated Docker container orchestration system with a pre-configured Nginx reverse proxy for multi-service routing.
- Automated dynamic container creation, environment generation, and configuration updates using PowerShell and Bash scripting.
- Implemented SSL certificate automation and access control, improving scalability and reducing manual configuration across Windows Docker Desktop (WSL) environments.
- Utilized ChatGPT, Cursor AI, and Claude AI to accelerate development, debugging, and technical documentation across freelance engagements, while maintaining full technical ownership and validation of all delivered work.

Synoption Pvt. Ltd. — DevOps Engineer

Remote | May 2025 – September 2025

- Administered Jenkins CI/CD pipelines end-to-end, automating manual deployment tasks to improve efficiency and reduce human error.
- Deployed and managed Docker-based application environments, handling container setup and production-level release activities with minimal downtime.
- Managed MySQL and PostgreSQL database releases using Liquibase for structured, version-controlled schema migrations.
- Enhanced Jenkins pipelines with automated email alerts for build and deployment failures, and generated daily operational reports.
- Coordinated release cycles through Jira, triggering deployment pipelines from tickets, and maintained Confluence documentation for operational knowledge sharing.
- Troubleshooted and resolved issues across pipelines, deployments, and containerized environments spanning multiple servers.

Emizen Tech Pvt. Ltd. — DevOps Engineer

Jaipur, India | November 2023 – December 2024

- Built and administered CI/CD pipelines across Bitbucket, GitHub, and Jenkins, automating build, test, and deployment for Laravel, Magento2, and Node.js applications.
- Automated Android application releases using Fastlane and Google Play Console, integrated with GitHub for server-independent, Google Cloud–authenticated deployments.
- Migrated and deployed Laravel, Magento, Shopware, and Node.js applications to cloud servers, containerizing workloads with Docker, Docker Compose, and Kubernetes.
- Deployed PHP applications using Deployer and managed LEMP/LAMP servers, domain configuration, SSL certificates, and firewall settings across AWS, Azure, and GCP.
- Configured Zabbix, UptimeRobot, and New Relic for proactive monitoring and alerting, and documented troubleshooting procedures and CI/CD setups.
- Supported production deployments, migrations, and backup/recovery operations, partnering with development teams to resolve infrastructure issues across staging and production.

Grras Solutions Pvt. Ltd. — DevOps Engineer Trainee

Jaipur, India | October 2022 – July 2023

- Gained hands-on experience with AWS core services (EC2, VPC, ELB), Docker, and Kubernetes fundamentals through applied infrastructure projects.
- Configured Apache and Nginx web servers with reverse proxy architectures for production-style environments.
- Built CI/CD pipelines integrating Jenkins with GitHub for automated build and deployment workflows.
- Supported monitoring setup with Prometheus and Grafana, and deployment/backup operations for PostgreSQL, MariaDB, and MySQL databases.

PROJECTS

Real-Time Chat Application — CI/CD Deployment on Oracle Cloud | [Repository](#)

- Deployed a containerized real-time chat application on Oracle Cloud Infrastructure using Docker and Docker Compose, with Nginx reverse-proxying HTTP and WebSocket traffic.
- Built an automated GitHub Actions CI/CD pipeline that rebuilds and redeploys containers over SSH on every push, and documented the full deployment architecture.

Android Application CI/CD Auto-Deployment | [Case Study](#)

- Configured an automated CI/CD pipeline using GitHub, Fastlane, and Google Play Console, triggering builds and Play Store uploads on every push.
- Enabled server-independent deployment via Google Cloud authentication, accelerating release cycles and eliminating manual build steps.

Auto-Deployment of Shopware E-Commerce Platform | [Case Study](#)

- Automated deployment using Bitbucket Pipelines and PHP Deployer, establishing SSH connections to remote servers and executing scripted releases on every commit.
- Reduced manual deployment effort and ensured seamless, consistent updates to the production Shopware application.

CI/CD Pipeline for Laravel, Magento2, and Node.js Applications

- Built Bitbucket Pipelines to automatically build, test, and deploy Laravel, Magento2, and Node.js applications, integrating SSH-based zero-downtime deployment and rollback support.
- Improved release efficiency and consistency across environments with automated testing and staging workflows.

Nginx Reverse Proxy Web Application Deployment | [Case Study](#)

- Deployed a web application behind Nginx, configuring reverse proxy routing to Node.js/Python/PHP backends with SSL termination via Let's Encrypt.
- Tuned Nginx configurations for performance and load handling, ensuring high availability and secure traffic flow.

CERTIFICATIONS

Red Hat Certified System Administrator (RHCSA) — Red Hat | [CERTIFICATE](#)

April 2023

- Validated expertise in Linux system administration, including user and storage management, networking, services, and security hardening.

EDUCATION

Bachelor of Computer Applications — University of Rajasthan (P.C.G.E)

Rajasthan, India | June 2019 – August 2022