

## MADHUP PANDEY

Contact: +91 9325012933 | Email: [8007930568pandey@gmail.com](mailto:8007930568pandey@gmail.com)

Location: Pune, Maharashtra

LinkedIn: <https://www.linkedin.com/in/madhup-pandey/>

GitHub: <https://github.com/DevMadhup/>

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### DEVOPS | AWS CLOUD | KUBERNETES | SOFTWARE DEVELOPMENT

✚ **Experienced and Result-oriented IT professional with 3 years of expertise** in automating processes, optimizing system performance, and ensuring scalability across cloud environments. Adept at implementing and maintaining monitoring and alerting systems, enhancing system availability, and reducing mean time to resolution. Providing exceptional problem-solving abilities, strong accuracy and attention to detail, and the crucial capacity to perform in hectic team contexts.

✚ **Areas of Expertise:** - DevOps Automation | OpenShift | CI/CD Pipelines | Process Improvements | Optimizing Automation Tools | Understanding Customer Requirements | Process Testing & Release | Troubleshooting & Bug Fixing | Incident Management | Analytical Skill | Problem-Solving | Written and Verbal Communication Skills | Attention to details | Organization Skills | Team Player

✚ **Technical Skills:** -

**Version Control System Tool:** Git, GitHub

**Operating Systems:** Linux, Windows

**Configuration Management:** Ansible, Chef

**Automation Scripting:** Shell scripting, Groovy scripting

**Build Tools:** Maven

**Application Servers:** Nginx, Apache Tomcat

**Application Monitoring Tools:** Grafana, Prometheus

**Continuous Integration & Deployment Tools:** Jenkins, GitLab

**Cloud Environments:** AWS (EC2, S3, VPC, Subnets, Route Tables, Internet Gateways, CloudFront, EKS, VPN, NACL, CLI, MFA, Load Balancers, EBS)

**Container and Orchestration Tools:** Docker, Kubernetes, OpenShift

**Bug Tracking Tool:** JIRA

**Application Security:** SonarQube, Trivy, OWASP

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### PROFILE SUMMARY

- Extensive experience in cloud infrastructure, automation, and continuous integration/continuous deployment (CI/CD) pipelines.
- Proven expertise in managing cloud environments, leveraging tools like AWS, Azure, and GCP to optimize system performance, scalability, and security.
- Skilled in Dockerizing applications, creating Dockerfiles, building images, deploying them to various environments, and utilizing ticketing tools like JIRA for issue tracking and project management.
- Possess a solid understanding of Site Reliability Engineering (SRE) principles, with a focus on maintaining high availability and minimizing downtime through proactive system monitoring, incident response, and performance optimization.
- Passionate about driving operational excellence through automation and fostering collaboration between development and operations teams.

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### ACHIEVEMENTS

- Developed and implemented a shell script to automate the monitoring of a web application, ensuring immediate email notifications when the application goes down, enabling developers to take prompt action, and minimizing client impact.
- Implemented a blue-green deployment strategy using Jenkins CI/CD pipeline to upgrade the application version, resulting in near-zero downtime and minimizing client impact during the upgrade process.
- Spearheaded the optimization of the CI/CD pipeline, reducing software deployment time by 40% and enabling faster releases, improving the overall development cycle efficiency.
- Enhanced Security: Integrated security testing in CI/CD, cutting security vulnerabilities by 60% in production.
- Disaster Recovery: Automated backups and failover systems, reducing recovery time by 50%

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### WORK EXPERIENCE

#### DevOps Engineer

July 2025 – Present

Sunfire Technologies Private Limited, Pune

**Client: National Securities Depository Limited (NSDL)**

- Setup **GitLab servers** from scratch, handling end-to-end configuration and deployment on Oracle Linux.
- Integrated **GitLab with LDAP** to enable secure, centralized user authentication and access management.

- Configured custom paths for data storage, logs, and backups to ensure smooth operations and easier maintenance.
- Migrated old GitLab data to a new environment with minimal downtime, ensuring data integrity and reliability
- Deployed and managed **GitLab Runners** to streamline CI/CD pipelines and improve development workflows.
- Implemented **DevSecOps** practices in **GitLab CI/CD**, including **code quality checks**, **secret detection**, and automated security scanning to improve overall software reliability and compliance.

#### Client: Chitale

- Set up a highly available and fault-tolerant **OpenShift kubernetes cluster on bare metal** by implementing **HAProxy**, **Keepalived**, **DNS**, and **DHCP** services for reliable operations.
- Deployed **2 HAProxy instances** to ensure seamless load balancing and redundancy across cluster nodes.
- Configured **Keepalived** to provide automatic failover and maintain uninterrupted availability of HAProxy services.
- Built and managed an internal **DNS server** to handle cluster-level name resolution efficiently.
- Implemented a **DHCP server** to allocate **static IPs** consistently across the infrastructure.

#### Configuration Release Analyst (DevOps)

Jun 2021 – Aug 2024

*Fidelity National Information Services (FIS), Pune*

- Managed **CI/CD pipelines** in **Jenkins** and automated tasks using shell scripting, resulting in an 80% reduction in manual effort.
- Designed various development, testing, automation tools, and IT infrastructure.
- Defined, and set development, test, release, update, and support processes for DevOps operation.
- Collaborated with the development team to accelerate software product development, reducing release time by 70%.
- Planned the team structure, activities, and involvement in project management activities.
- Strived for continuous improvement and build **continuous integration**, continuous development, and constant deployment pipeline. Troubleshoot and resolved issues in development, testing, and production environments.
- Recommended process improvements to ensure system scalability and reliability.
- Implemented and managed continuous delivery systems and methodologies on **AWS**, **Azure** Cloud Platform.

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#### PROJECTS

##### Java application deployment using Jenkins:

- Successfully deployed a Java-based application using **Maven and Jenkins CI/CD pipeline**, integrating security protocols with **OWASP**, **SonarQube**, and **Trivy** to ensure robust protection.
- Led the integration of over three **DevSecOps tools** into the Jenkins pipeline, implementing Static Application Security Testing (SAST) scans, which improved security and decreased vulnerability exposure by 40%.
- Administered Jenkins build servers integrated with **Docker**, automating the Jar-to-image conversion, resulting in a 40% reduction in software release time and enhancing team productivity by 25%.
- Configured and deployed applications on **Apache Tomcat** servers through the CI/CD pipeline, ensuring seamless integration and streamlined deployment processes.

##### Java application deployment using DevSecOps and GitOps:

- Orchestrated the deployment of a Java application leveraging **DevSecOps** and **GitOps** practices, ensuring enhanced security and operational efficiency.
- Automated infrastructure provisioning and configuration management with **Terraform**, cutting provisioning time by 50%.
- Enforced security best practices, conducted vulnerability assessments, and safeguarded application integrity, reducing security-related issues by 80%.
- Integrated **ArgoCD** as the continuous delivery tool, enabling seamless deployment on **Kubernetes**.
- Streamlined version control and code management using Git, overseeing code reviews and merge processes to ensure consistency and quality.

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#### EDUCATION

- 2021-2023 | Masters of Computer Applications from GH Rasoni University, Amravati
- 2018-2021 | Bachelor of Computer Applications from GH Rasoni Institute of Information Technology, Nagpur

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#### CERTIFICATIONS

- AWS: Zero to Hero Certification, Dec 2023
- Advance DevOps Certification, Jul 2023