

# Karthik B Hegde

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## Professional Summary

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DevOps Engineer with 3+ years of experience designing and automating CI/CD pipelines, build systems, and cloud-native infrastructure. Strong programming experience in Python and Bash on Linux environments. Skilled in AI-assisted DevOps workflows, distributed systems troubleshooting, and scalable deployment automation. Passionate about improving engineering efficiency, deployment reliability, and system stability.

## Technical Skills

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**Programming:** Bash (Unix/Linux environments)

**DevOps & CI/CD:** GitHub Actions, Jenkins

**AI-Assisted Engineering:** Claude Code (AI agent for scripting, debugging, automation support)

**Containers & Orchestration:** Docker, Kubernetes

**Infrastructure as Code:** Terraform, Ansible

**Monitoring & Logging:** Prometheus, Grafana

**Messaging Systems:** Apache Kafka

**Cloud Platforms:** AWS (EC2, S3, IAM, VPC, Lambda)

**Version Control & Agile:** Git, JIRA, Scrum/Kanban

**Operating Systems:** Linux (Ubuntu, RHEL)

## Professional Experience

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### DevOps Engineer

Nov 2022 – Present

Appsndevices Technologies Pvt. Ltd., India

- Designed and maintained CI/CD pipelines using GitHub Actions and Jenkins, reducing manual deployment effort and improving release consistency across environments.
- Developed Python and Bash automation scripts for infrastructure provisioning, validation checks, and deployment workflows, reducing manual operational tasks and improving deployment speed.
- Leveraged AI-assisted tools including Claude Code to accelerate scripting, configuration generation, debugging, and operational analysis while validating outputs for correctness and reliability.
- Managed Docker-based build environments and Kubernetes deployments ensuring scalable and stable application releases.
- Provisioned cloud infrastructure using Pulumi while working with Terraform and Ansible for Infrastructure as Code, enabling reproducible and version-controlled deployment environments.
- Troubleshot CI/CD pipeline failures, infrastructure issues, and deployment errors contributing to root cause analysis and improved system stability.
- Implemented monitoring and observability using Prometheus and Grafana to identify performance bottlenecks and improve production system visibility.
- Managed Apache Kafka clusters for distributed event streaming and troubleshooting replication, connector, and consumer pipeline issues.
- Collaborated with development, QA, and product teams to ensure smooth integration and continuous delivery workflows.
- Participated in Agile development processes (Scrum/Kanban) delivering DevOps automation improvements within sprint cycles.
- Supported production environments through on-call rotations resolving CI/CD and infrastructure-related incidents.

## Education

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### Master of Computer Applications

2020 – 2022

B.M.S College of Engineering, Bengaluru