

# Pavan Sree Pichuka | DevOps Engineer

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## SUMMARY

**DevOps Engineer** with **4+ years** of hands-on experience in automating infrastructure, implementing CI/CD pipelines, and managing cloud-native applications across AWS and Azure environments. Proven ability to deploy and maintain containerized microservices using Docker and Kubernetes (EKS/AKS), and to provision scalable infrastructure through Terraform and Pulumi. Strong foundation in DevSecOps, cloud monitoring, and release management, with practical experience in both startup and enterprise-level Agile environments. Adept at collaborating cross-functionally with development, QA, and security teams to ensure reliable, secure, and high-performing software delivery.

## PROFESSIONAL EXPERIENCE

### Honda, Canada

Jan 2024 – Current

#### DevOps Engineer

- Designed and managed **CI/CD pipelines** using **Azure DevOps** and **GitHub Actions**, automating build, test, security scanning, and deployment processes for microservices across staging and production environments.
- Provisioned and maintained **cloud infrastructure** using **Terraform** and **Pulumi** on **Azure**, deploying resources like **AKS**, **App Services**, **Blob Storage**, **Key Vault**, and **Log Analytics** for observability.
- Deployed and managed **Docker containers** using **Kubernetes (AKS)** and **Helm**, configuring autoscaling, rolling updates, and resource quotas to ensure reliability and cost efficiency.
- Implemented **monitoring and alerting** with **Prometheus**, **Grafana**, and **Azure Monitor**, enabling real-time visibility into service health, latency, and error rates.
- Embedded **DevSecOps practices** by integrating tools like **Trivy**, **Dependabot**, and **Aqua Security** into pipelines, automating container and dependency vulnerability scanning.

### Infosys Ltd. (Business: Toyota, TX)

Oct 2021 - Aug 2023

#### DevOps Engineer/Digital Specialist Engineer

- Designed and implemented **end-to-end CI/CD pipelines** using **Jenkins**, **GitHub Actions**, and **AWS CodePipeline**, automating unit testing, static code analysis, artifact storage, and blue-green deployments across dev, UAT, and production environments.
- Provisioned and managed cloud infrastructure using **Terraform** and **AWS CloudFormation**, deploying scalable, secure AWS resources (EC2, S3, RDS, VPC, IAM, and Lambda) in accordance with Infrastructure as Code (IaC) best practices.
- Containerized microservices using **Docker** and deployed them on **Amazon ECS**, ensuring application consistency, reducing environment-specific issues, and supporting autoscaling in production.
- Developed and maintained RESTful APIs using **Node.js** and **Express.js**, with integrations to internal services using **JWT**, **OAuth2**, and **AWS API Gateway** for secure communication and authentication.
- Monitored application health and infrastructure performance through **AWS CloudWatch**, **ELK Stack (Elasticsearch, Logstash, Kibana)**, and **Prometheus-Grafana**, configuring custom dashboards, log retention policies, and proactive alerting via **SNS** and **PagerDuty**.
- Wrote and optimized complex **PostgreSQL** queries, applied indexing strategies, and assisted in designing normalized schemas to improve data integrity and query performance for high-throughput applications.
- Enforced DevOps quality standards by integrating **SonarQube**, **Checkmarx**, and **OWASP Dependency-Check** in CI workflows, while achieving >85% test coverage using **Jest**, **Mocha**, and **Chai** for unit, integration, and E2E testing.
- Collaborated in cross-functional Agile teams using **Scrum methodology**, participating in sprint ceremonies, managing tasks via **JIRA**, maintaining documentation in **Confluence**, and conducting peer code reviews to uphold clean code and DevOps best practices.

### Wipro Enterprises, India

Jan 2021 – Sep 2021

#### DevOps Engineer Intern

- Assisted in the creation and optimization of **CI/CD pipelines** using **Jenkins**, **Git**, and **Maven**, enabling automated build, test, and deployment processes across development and QA environments.
- Supported the containerization of Java-based applications using **Docker**, creating and managing Dockerfiles, and running containers locally to ensure consistency across environments.
- Gained practical experience with **AWS services** including **EC2**, **S3**, **IAM**, and **CloudWatch**, helping configure instances, set up permissions, and monitor resource usage for sandbox projects.
- Contributed to writing **Terraform scripts** for provisioning cloud infrastructure, learning best practices in **Infrastructure as Code (IaC)** and managing reusable module structures for scalability.
- Participated in **Agile ceremonies** (daily stand-ups, sprint reviews) while collaborating with DevOps and development teams to troubleshoot build issues, monitor logs using **ELK Stack**, and document deployment procedures in **Confluence**.

## TECHNICAL SKILLS

**Cloud Platforms:** AWS (EC2, S3, IAM, VPC, RDS, Lambda, CloudWatch, SNS, SQS, ECS), **Azure** (AKS, App Services, Blob Storage, Azure Key Vault, Azure Monitor, Log Analytics)

**Infrastructure as Code (IaC):** Terraform, Pulumi, AWS CloudFormation, Terraform Cloud

**CI/CD Tools:** Jenkins, GitHub Actions, Azure DevOps, GitLab CI/CD, AWS CodePipeline, Maven

**Containerization & Orchestration:** Docker, Docker Compose, Kubernetes (AKS, EKS, Minikube), Helm

**Monitoring & Logging:** Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana), AWS CloudWatch, Azure Monitor

**DevSecOps & Code Quality:** SonarQube, Trivy, Aqua Security, Checkmarx, OWASP Dependency-Check, Dependabot

**Programming & Scripting:** Bash, YAML, Python (basic), JavaScript, Node.js, Express.js

**Version Control & Collaboration:** Git, GitHub, GitLab, Bitbucket, JIRA, Confluence

**Testing & Automation:** Jest, Mocha, Chai, Selenium (basic), JUnit (basic)

**Agile/SDLC Methodologies:** Agile (Scrum), GitOps, Sprint Ceremonies, RCA Documentation

## EDUCATION & CERTIFICATION

**Master of Engineering** | University of Ottawa, Ottawa, ON

Sep 2023 - May 2025

**Electrical and Electronics Engineering (EEE)** | Anil Neerukonda Institute of Technology and Sciences

Aug 2017 - Jul 2021

**AWS Certified Developer - Associate – 2025** | **Infosys Certified** Front-End Web Developer