

SHARNITHA VIJAYAKUMAR

Senior DevOps Engineer

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PROFESSIONAL SUMMARY

I am a results-driven DevOps professional with around 4 years of experience, specializing in cloud-native development and CI/CD automation. I focus on optimizing infrastructure and explore Generative AI to enhance workflows. I actively publish projects on GitHub, contributing practical strategies for peer learning and continuous improvement within the DevOps community.

SKILLS

- **Cloud & Infrastructure:** Azure, AWS, Terraform
 - **Containerization & Orchestration:** Kubernetes, Docker Compose
 - **CI/CD & Automation:** GitHub Actions, Azure DevOps
 - **Monitoring & Observability:** Prometheus, Grafana, Application Insights, Datadog
 - **Security & Quality:** Sonar Qube/Cloud, Trivy, Azure NSGs, Defender for Cloud
 - **Application & Web Servers:** Nginx, Apache Tomcat, IIS, HTTPD
 - **Cost Optimization:** Resource pruning, Usage analytics, Scaling strategies
 - **Scripting & Automation:** Bash, Python (basic)
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WORK EXPERIENCE

📍 Chennai,TN,India

Senior DevOps Engineer

Aspire Systems | 2021 - Present (4 Years and 1 month)

Attention. Always.

Achievements:

- **Architected scalable Kubernetes clusters in AWS EKS** with Helm-based microservice deployments and finely tuned Ingress routing for performance and fault tolerance.
- **Engineered custom pod autoscaling**, validating **150+ pod scalability** under load tests—enhancing high-availability SLAs for production services.
- **Accelerated CI/CD pipelines by 30%** through caching strategies in **GitHub Actions** and **Azure DevOps YAML** workflows, minimising build latency and improving throughput.
- **Containerised .NET and Node.js applications** using **Docker with multi-stage builds**, reducing image size and meeting stringent security benchmarks.
- **Integrated SonarQube and Trivy** into CI pipelines to enforce code quality, vulnerability detection, and compliance across the development lifecycle.
- **Redesigned Azure architecture**, driving a **38.2% infrastructure cost reduction** via precision autoscaling, resource sizing, and environment auditing.

- **Managed cloud lifecycle operations across Azure and AWS** - covering IaaS, PaaS, and secure networking setup.
 - **Enabled full-stack observability** with Application Insights and Datadog, supporting proactive monitoring and incident response.
 - **Automated incident management workflows** using **Azure Monitor, Logic Apps, and JIRA**, enabling auto-ticket creation, dynamic assignments, and real-time status syncing from alert to resolution.
 - **Streamlined ticket lifecycle** acknowledgement triggers an auto “In Progress” update, while resolution events close or delete JIRA tickets—reducing manual overhead and improving MTTR.
 - **Received client appreciation** for delivering resilient cloud-native architecture and automation flows and was praised for performance and strategic impact.
 - **Mentored junior engineers** on Docker, CI/CD, Git workflows, cloud security basics, and operational best practices.
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KEY ACHIEVEMENTS & RECOGNITION

- **38.2% Cost reduction** in Azure infrastructure through architectural redesign and usage audits.
 - **Awarded client appreciation** for reliability and innovation in delivery of scalable DevOps solutions.
 - **Enabled end-to-end automation** in incident workflows with zero manual intervention using Logic Apps and JIRA integrations.
 - **Improved CI/CD efficiency by 30%** through caching and workflow optimisation across GitHub and Azure DevOps.
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KEY PROJECTS

 [EXPLORE ALL : GITHUB.COM/ISWARYA1808](https://github.com/ISWARYA1808)

- **Robot Shop (Azure AKS, Helm, Istio, Prometheus, Grafana)** – E2E microservices deployment with service mesh (advanced) and monitoring.
 - **Online Boutique (Azure AKS, Helm, Istio, Prometheus, Grafana)** – Containerized microservices with automated Helm deployments and monitoring.
 - **Video-to-Audio (AWS EKS, Helm)** – Scalable audio conversion pipeline with K8s microservices.
 - **Mario-minic (Azure AppService, ACR, SonarCloud)** – CI/CD pipeline with code quality checks and containerized app deployment.
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CERTIFICATION

- Certified Kubernetes Administrator (CKA).
 - Azure Fundamentals (AZ-900).
 - Azure Administrator Associate (AZ-104).
 - AWS Certified Cloud Practitioner.
 - HashiCorp Certified: Terraform Associate (003).
 - Career Essentials in Generative AI - Microsoft & LinkedIn.
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EDUCATION

Bachelor of Engineering - ECE

Angel College of Engineering and Technology (*affiliated to Anna University, Chennai, TN*) | 2017 - 2021
