

HARISH VENUGOPAL

Backend and Cloud Engineer

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PROFESSIONAL SUMMARY

Backend and cloud engineer with 3+ years of combined experience across Java/Spring Boot, Python, REST APIs, CI/CD, Terraform, Docker, AWS and Azure workflows, Linux/Windows troubleshooting, monitoring, and production support. I work best where backend delivery meets operations: building services, automating validation, reviewing cloud configurations, and using logs, metrics, and runbooks to support applications after release.

CORE SKILLS

Backend Engineering: Java, Spring Boot, Python, FastAPI, REST APIs, SQL, PostgreSQL, MySQL, API troubleshooting, service integration

Cloud and Infrastructure: AWS, Azure, Terraform, Bicep, IAM, VPC/VNet, S3, CloudWatch, Azure Monitor, Linux, Windows Server

CI/CD and DevOps: GitHub Actions, Jenkins, Docker, Git workflows, Terraform validation, smoke tests, deployment checks, rollback planning

Containers and Workloads: Docker packaging, Kubernetes workload configuration, manifests, services, configmaps, secrets, readiness and liveness probes

AI-Assisted Engineering: ChatGPT/OpenAI, Claude, GitHub Copilot, LLM/API concepts, code explanation, test-case ideation, debugging research, documentation drafts, prompt evaluation, output validation

Reliability and Support: Bash, PowerShell, Python scripts, health checks, log checks, metrics review, runbooks, incident investigation, release support

PROFESSIONAL EXPERIENCE

Software Engineer, Backend / Platform

Ionixx Technologies, Fintech SaaS

Apr 2023 to Oct 2023

- Built and supported Java/Spring Boot backend services involving REST APIs, service configuration, SQL connectivity, logging, deployment validation, and production issue investigation.
- Improved release reliability by standardizing GitHub Actions workflows for build, test, Docker packaging, deployment validation, and post-deployment smoke checks.
- Investigated API and environment issues by reviewing logs, request flow, SQL connectivity, environment variables, secrets, dependencies, and recent release changes.
- Used Terraform modules and reusable inputs to support repeatable cloud resource provisioning, environment validation, and infrastructure review.
- Supported AWS application environments by reviewing IAM access, networking rules, service health, CloudWatch logs, metrics, and deployment history.
- Supported Docker-based application packaging and Kubernetes workload configuration with services, configmaps, secrets, probes, logs, and rollout checks.

Junior Software Engineer, Backend / Platform

Ionixx Technologies, Fintech SaaS

May 2021 to Apr 2023

- Developed and maintained Java/Spring Boot application code, REST APIs, SQL queries, Git workflows, and build configurations.
- Built Jenkins pipelines with checkout, build, test, deploy, Terraform validation, and smoke-test stages for backend services.
- Used Python, Bash, and PowerShell scripts for endpoint checks, log checks, service health checks, deployment validation, and failure-condition handling.
- Troubleshoot build failures, dependency conflicts, API errors, database connectivity, and environment configuration issues across the delivery lifecycle.
- Worked with developers and QA to validate release issues, isolate failure points, document repeatable fixes, and support customer-facing services.

PROJECTS AND PORTFOLIO

Mobile Platform Reliability Lab

github.com/HarishDarko/mobile-platform-reliability-lab

- Built a Python/FastAPI backend with REST endpoints, health checks, structured logs, request IDs, metrics-style output, and controlled failure scenarios.
- Created GitHub Actions validation for tests, linting, Docker build, Terraform validation, deployment checks, certificate checks, and smoke checks.
- Implemented cloud deployment practice using GCP workflows, Artifact Registry, Secret Manager, Workload Identity Federation, and Terraform.
- Documented request tracing, incident investigation, rollback planning, service recovery, deployment validation, and infrastructure review steps.
- Used AI-assisted tools for explanation, test planning, and documentation review while manually validating technical claims and source references.

EDUCATION

Postgraduate Certificate, Cloud Computing | Durham College | 2024 to 2025 | Honor Roll

Postgraduate Certificate, Information Technology | Conestoga College | 2024 | Distinction

Bachelor of Engineering, Computer Science | KCG College of Technology | 2017 to 2021 | First Class