

VISHNU N V

DevOps & Platform Engineer | Cloud Infrastructure & Automation

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PROFESSIONAL SUMMARY

DevOps & Platform Engineer with 6+ years in financial-services technology, including 4 years at JPMorgan Chase, specializing in **AWS cloud infrastructure, Infrastructure-as-Code (Terraform Enterprise), Kubernetes/EKS, CI/CD automation, and FinOps**. Proven record of large-scale Terraform module upgrades, certificate and secrets automation, platform hygiene across enterprise applications, and cost optimization — including a ~98% S3 cost reduction. Also built production agentic-AI tooling that autonomously remediates Terraform/AWS infrastructure, bringing an automation-first, AI-augmented approach to platform engineering and reliability.

TECHNICAL SKILLS

Cloud & Infrastructure: AWS (EKS, ECS, RDS, Lambda, S3, IAM, VPC, CloudWatch, CKMS), High-Availability Architecture, VPC/Networking, Cloud Resource Lifecycle Management

Infrastructure as Code: Terraform / Terraform Enterprise, HCL, Module Versioning & Upgrades, Drift Detection, Workspace Management

Containers & Orchestration: Docker (multi-stage builds), Kubernetes, Amazon EKS, ECS, OpenShift

CI/CD & Deployment: Cloud Foundry (cf CLI), Jules Pipelines, Spinnaker, Bitbucket DC REST API, nginx, automated build & release

Configuration & Scripting: Ansible, Python, Bash, PowerShell, REST API integration

Observability & Reliability: Dynatrace, Grafana, CloudWatch, Splunk, Geneos, MTTR reduction, incident triage

Security, FinOps & Governance: CKMS certificate automation, SCX secrets management, cost optimization, compliance / platform hygiene (FARMS, divest/prohibited modules)

AI-Driven Automation: Agentic AI, LLM Tool-Calling, RAG (ChromaDB), self-healing infrastructure workflows

PROFESSIONAL EXPERIENCE

JPMorgan Chase & Co.

Feb 2022 - Present

Sales & Research Technology · Bangalore, India

DevOps & Platform Engineer (Associate Vice President)

2024 - Present

- Led **Terraform module-version upgrades and workspace decommissioning** across CIB Activity Hub, ICE, Contact Master, and CHIMEUI on Terraform Enterprise; proactively resolved the majority of divest/prohibited-module FARMS and AO communications to maintain platform hygiene, compliance, and stability.
- Spearheaded **S3 lifecycle optimization** for the IODS platform, cutting daily S3 cost from \$19 to \$0.38 (~98% reduction) and delivering ~\$4,600 in net annual savings.
- Designed, developed, and deployed an **Unused VPC Endpoint deletion tool** enabling recurring cloud-resource cleanup, improving security posture and cost efficiency — recognized by leadership.
- Automated **CKMS certificate renewal and fresh-certificate creation** across RDP, MCP, ICE, and Research Metrics, and established **SCX secrets-manager rotation** for Contact Master, removing manual effort and strengthening security and compliance.
- Built **TerraDune**, an automation platform that orchestrates Terraform/AWS remediation across EKS/ECS/RDS — auto-diagnosing failed plans and opening PRs (detailed under Key Projects), compressing module-upgrade cycles from days to under 10 minutes and reducing triage MTTR ~30x.
- Built a **React-based SRPM Data-Quality Dashboard** consolidating incident/problem/change governance into a single view with automated email reporting, eliminating manual weekly reporting for team leads.
- Delivered a firm-wide training and demo on CKMS automation in the **Ignite Automation Community**; core member of the Bengaluru Ignite Automation team and contributor to Ignite Spark 2024.

Production Support Engineer (Associate)

Feb 2022 - 2024

- Provided L1/L2 production support across Sales & Research Technology applications during APAC hours, sustaining SLA-driven service quality while leading L1/L2 knowledge-consolidation and transfer sessions.
- Automated application installation and operational tasks via Python/ENAML tooling, built Geneos alert monitoring, and deployed upgrades through Jules and Cloud Foundry (cf CLI) pipelines.

Tata Consultancy Services Ltd.

Jan 2020 - Feb 2022

Operations / Support Engineer · Client: Deutsche Bank (BFSI) · Bangalore, India

- Automated software installation, certificate renewal, IIS binding, and data flows via **Ansible** (DBRUN) and PowerShell housekeeping scripts deployed across all production servers, supporting RPA (Blue Prism), risk-analytics, and OTP authentication platforms.
- Performed Geneos monitoring (NetProbe setup), Splunk log analysis, and Oracle SQL data extraction across production and UAT; maintained 100% SLA on production-issue resolution and project deployments.

KEY PROJECTS

TerraDune v2 — Automation Platform for Cloud Infrastructure & Terraform

2025 - Present

Terraform / HCL · AWS · TypeScript · Python (boto3) · ChromaDB · VS Code Extension API · Claude Opus

- Architected an end-to-end **infrastructure-automation platform** (delivered as a VS Code chat extension) that turns natural-language intent into safe, audited actions across AWS, EKS/ECS, RDS, **Terraform Enterprise**, Bitbucket, Spinnaker, Dynatrace, and Grafana — collapsing 10+ CLIs and 6+ dashboards into one surface.
- Engineered an **8-phase self-healing Terraform-upgrade agent** that clones repos, scans modules, queries a private TFE registry, performs risk-scored version selection, rewrites HCL, runs `terraform plan`, auto-diagnoses failures, applies fixes, re-plans, commits, and opens PRs — with bounded-retry anti-loop guards.
- Added on-demand **drift detection, FinOps cost lensing, and log/metric analysis** across 30+ AWS services, plus a ChromaDB-backed knowledge store for self-healing fix retrieval from prior incidents and upgrade history.
- Built defense-in-depth **safety and governance**: read-only allow-listed tooling, every mutating action (PR, apply, install) gated behind explicit user consent, OS-keychain secret storage, and a full audit channel mirroring every action for compliance and reproducibility.
- Impact:** 30-100x faster Terraform module-upgrade cycles (days → minutes, auto-generated PRs) and ~30x MTTR reduction for EKS/ECS/RDS triage, scaling senior SRE expertise to every engineer through a single installable extension.

SCOPE — Internal Developer Tools Portal & Plugin Marketplace

2024 - 2025

Docker (multi-stage) · Cloud Foundry · nginx · Node.js · Express · SQLite · Bitbucket DC REST API · React

- Designed and shipped a **full-stack internal developer portal** on Cloud Foundry that catalogs, versions, and distributes VS Code extensions (.vsix) and team documentation, replacing ad-hoc Bitbucket/email sharing and cutting tool-publish time from days to minutes.
- Engineered a **self-healing persistence pipeline for a stateless PaaS** (in-process DB → debounced JSON snapshot → automated Bitbucket commit + Cloud Foundry restage), guaranteeing zero data loss across container redeployments.
- Productionized via a **multi-stage Alpine Docker build behind nginx** with SPA routing, gzip, asset caching, and an automated publish-to-prod CI loop integrating the Bitbucket DC and Cloud Foundry v3 APIs; adopted as the team's canonical tool-distribution channel.

EDUCATION & TRAINING

Bachelor of Technology, Mechanical Engineering

2014 - 2018

LBS College of Engineering, Kasaragod, Kerala, India

Software Engineering Trainee (Python) — ART Technology and Software India Pvt. Ltd.

2019

CERTIFICATIONS

- AWS Certified Cloud Practitioner** — Amazon Web Services (2023)
- IBM Cloud Essentials & IBM Developer Skills Network** — Kubernetes, Containers, Infrastructure Services (2021)
- In progress:** AWS Certified DevOps Engineer - Professional · AWS Certified AI Practitioner

Languages: English, Hindi, Malayalam