Vishnu E

Senior DevOps Engineer | Site Reliability & Platform Engineering | Kubernetes · Go · Azure/GCP

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SUMMARY

Senior DevOps/SRE engineer with 9+ years operating Kubernetes and cloud infrastructure (Azure, GCP) and building backend automation (Go, Python) in enterprise-scale production environments. CKA, CKS, and AZ-104 certified. Delivers independently end-to-end: directed an AI-assisted solo build of a micro-SaaS product (digitalAlbum.io) using GitHub Copilot agent mode, and built and maintains a production Go CLI that eliminated a recurring manual workflow. Leads a 15-engineer platform team operating a hybrid Azure AKS / on-prem OpenShift estate running 25,000–45,000 CI/CD jobs per day. First-principles operator: fixes root cause, not symptom.

CORE COMPETENCIES

Kubernetes & Platform: AKS, OpenShift, Istio (PoC — traffic control/resilience fit), Cilium/eBPF (incl. kube-proxy replacement), Helm

Cloud & OS: Azure, GCP, Linux

Languages & Automation: Go, Python, Ansible, Terraform

Data: PostgreSQL, Redis

CI/CD & Delivery: Docker, GitHub Actions (ARC self-hosted runners), GitHub Enterprise, JFrog Artifactory

Observability & Reliability: Datadog, Azure Monitor, incident RCA, MTTR reduction

AI-assisted Engineering: GitHub Copilot (agent mode, daily use), Microsoft Semantic Kernel (multi-agent prototyping)

PROFESSIONAL EXPERIENCE

Senior DevOps Engineer

Oct 2023 – Present

Bosch Global Software Technologies, Coimbatore, India

- Built a Go CLI (Cobra) against a PostgreSQL/PostgREST API that automates service-ownership reconciliation and customer notification via Azure Communication Services — cut an estimated 390 hours/year of manual Excel + Mail Merge work to roughly 250 hours/year, removing spreadsheet-driven data errors from the outreach.
- Migrated observability from Azure Log Analytics to Datadog (2025–present), building and continuously improving dashboards and alerting; built automated per-service maintenance-window scheduling (created before, auto-deleted after) to suppress alert noise during planned maintenance.
- Ran a PoC evaluating Istio service mesh against AKS platform traffic-control and resilience requirements (CKA certified); operates Cilium (eBPF-based CNI) in production, including kube-proxy replacement.
- Automated GitHub backup, Mattermost monitoring, and AKS version-drift alerting — saving 4+ hours/month of manual toil.
- Drove root-cause analysis for GitHub Enterprise and Artifactory production incidents, shipping fixes that reduced recurrence.
- Owns firewall policy and compliance as Network Zone Manager across segmented Bosch network zones.
- Leads a team of 15 engineers; prototyped multi-agent systems on Microsoft Semantic Kernel.

Senior Software Engineer

Aug 2021 – Sep 2023

Bosch Global Software Technologies, Coimbatore, India

- Scaled a self-hosted, auto-scaling GitHub Actions runner platform (ARC) across Azure AKS and on-prem OpenShift, running 25,000–45,000 CI/CD jobs/day for internal customer teams.

- Ran GitHub Enterprise, JFrog Artifactory, and Mattermost org-wide for high availability, security, and release readiness.
- Led incident response and root-cause analysis, reducing MTTR; automated patching, backups, and maintenance to cut unplanned downtime.
- Built observability with Datadog and Azure Monitor; wrote automation in Ansible, Python, and Go across Linux, Kubernetes, and OpenShift.

System Engineer Jul 2019 – Aug 2021

Tata Consultancy Services (Client: SAP Labs), Bengaluru, India

- Automated infrastructure with Ansible across a fleet of 10,000+ Linux and 900+ Windows servers spanning GCP, AWS, and private cloud.
- Hands-on provisioning, migration, and patching across GCP, Azure, VMware, and Xen; monitored fleet health via Nagios.

System Engineer Mar 2018 – Jul 2019

Tata Consultancy Services (Client: SAP Hybris), Bengaluru, India

- Wrote Ansible automation that cut maintenance windows by 75% for server migrations and Apache upgrades on SAP's VMware data center.
- Contributed to upgrade planning, disaster-recovery strategy, and production troubleshooting.

SELECTED PROJECTS

Service-Ownership Automation — Bosch Global Software Technologies 2025–2026

In a large organization, the person who provisions a service eventually leaves — and the service keeps running with no accountable owner, an unclaimed-spend and compliance gap the existing fix (a manual weekly export-and-mail-merge campaign) cost 7–8 hours/week to run. Built a Go CLI that treats a PostgreSQL contact database — queried live via PostgREST — as the source of truth instead of a spreadsheet snapshot, resolving recipients by contact tier and dispatching templated notifications through Azure Communication Services from a single command. Cut an estimated 390 hours/year of manual preparation and dispatch to roughly 250, turning an easily-skipped campaign into a repeatable, on-demand mechanism.

digitalAlbum.io — Micro-SaaS for Wedding Photographers 2026

Directed architecture, product decisions, and iteration solo, using GitHub Copilot agent mode to write the Go backend and React frontend — an AI-assisted build rather than hand-coded full-stack engineering, with scope directed and output reviewed rather than written line by line. Lets photographers show clients photos on-site at the venue instead of drive transfers or next-day delivery. Live at digitalAlbum.io.

AI Gateway Architecture PoC — Bifrost vs. LiteLLM 2026

Led a PoC evaluating AI gateway architectures for a large developer organization's cross-cloud LLM traffic; recommended an approach based on credential blast radius and egress economics. Not implemented, due to a subsequent organizational decision rather than a technical one.

CERTIFICATIONS

CKA	Certified Kubernetes Administrator, The Linux Foundation (renewed Aug 2026, valid through Aug 2028)
CKS	Certified Kubernetes Security Specialist, The Linux Foundation (renewed Aug 2026, valid through Aug 2028)
AZ-104	Microsoft Certified: Azure Administrator Associate (Oct 2022)

LANGUAGES

English — Professional working proficiency · Tamil — Native · Telugu — Native/Fluent