

AKSHAY SINHA

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Platform Engineering, DevOps & AI Enablement Leader

PROFILE

Engineering and platform leader with 18+ years of experience building DevOps, SRE, cloud, automation and secure delivery platforms across financial services, media and enterprise technology. Currently focused on applying GenAI, RAG architectures, vector search and developer tooling to solve engineering and operational challenges at scale. Known for building practical platforms, simplifying complex systems and enabling high-performing engineering teams.

CORE SKILLS

AI & GenAI	Azure OpenAI, GPT/foundation models, RAG, vector search, embeddings, AI assistants, MCP, prompt engineering, agentic workflows
Platform Engineering	Kubernetes, OpenShift, AKS, EKS, Docker, Podman, Linux platform automation
Cloud & DevOps	Azure, AWS, Terraform, Ansible, OPA, Policy as Code, Infrastructure as Code, DevSecOps
Programming & Automation	Python, Shell scripting, PowerShell, Airflow, Jenkins, Rundeck
Data, Search & APIs	PostgreSQL, Neo4j, MongoDB, DB2, Kafka, GraphQL, Sourcegraph, GitHub Search
Observability & Security	Grafana, Splunk, ELK, FluentBit, OPA/Gatekeeper, Kerberos automation, security controls
Delivery & Collaboration	Jira administration, Confluence, Agile delivery, release engineering, stakeholder management

PROFESSIONAL EXPERIENCE

Morgan Stanley | Vice President - DevOps

2020 - Present | India

Lead DevOps, automation and production engineering initiatives for Equity Swaps platforms within Institutional Securities, with a focus on reliability, developer productivity, operational excellence and AI-driven engineering solutions.

- Built an AI-powered Engineering Assistant using OpenAI foundational models and RAG architecture for the Equity Swaps Engineering and Support organization. The platform ingests knowledge from Jira, incidents, change tickets, documentation and support records, vectorizes content into PostgreSQL and exposes a chat interface for developers and business users.
- Developed an AI-based defect intelligence solution using Azure foundational models to correlate current QA and regression defects with historical defect plans, reducing manual analysis effort by around 60% and speeding up defect triage.
- Created an internal developer productivity tool for data lineage, discovery and cataloging using Sourcegraph MCP capabilities and GitHub Search, making impact analysis and onboarding easier for engineering teams.
- Responsible for Managing large-scale Equity Swaps environments spanning 800+ Linux servers across production and non-production platforms through automation and support.
- Lead engineering ownership of Equity Swaps data platforms and APIs supporting critical trading workflows across Swaps and Fixed Income.
- Built cybersecurity and DevSecOps platforms using Airflow, Neo4j, GraphQL and Open Policy Agent, improving control validation, policy enforcement and risk visibility.
- Delivered Kubernetes and OpenShift automation including OPA-based admission controls, automated Kerberos provisioning and platform security enhancements.
- Developed engineering accelerators such as Infrastructure-as-Code security validation and Jira-ServiceNow integration workflows.

Cognizant | Senior Manager - DevOps

2018 - 2020 | India

- Led DevOps and platform engineering teams across strategic client programs including PepsiCo and Universal Studios, driving delivery, cloud adoption and CI/CD modernization.
- Designed scalable CI/CD pipelines and automated environment provisioning for high-scale microservices environments, improving release speed and reliability.
- Established a global NGINX-based API platform and managed CDN operations using Akamai and Cloudflare for customer-facing applications.
- Improved delivery predictability through stronger stakeholder alignment, governance routines and engineering process improvements.

HCL Technologies | Manager - DevOps

2014 - 2018 | India & United States

- Led DevOps initiatives across Comcast, NBC Universal and Universal Studios programs, covering automation, vendor management and end-to-end delivery.
- Built in-house automation solutions and Python-based systems for infrastructure setup, release management and large-scale data migration.
- Automated API publishing, authentication workflows and microservice onboarding, reducing release effort and improving deployment consistency.

Tata Consultancy Services | IT Analyst - DevOps

2008 - 2014 | India & United Kingdom

- Automated build, release and deployment processes for WebSphere, Java and .NET applications, improving release accuracy and reducing manual effort.
- Led project planning, vendor coordination and BAU governance while supporting contract and delivery management activities.
- Developed internal automation capabilities focused on reducing operational pain points and improving day-to-day engineering productivity.
- Contributed to RFPs, solution planning, billing discussions and SOW/MSA adoption across projects.

EDUCATION

B.Tech, Computer Science | Faculty of Engineering & Technology, Haridwar, India | 2004 - 2008

PROJECTS & COMMUNITY

- Founder and builder of HashtagHarvest, an AI-assisted research and social content generation platform for converting trending topics into usable content ideas.
- Founder and builder of SecureCV, an AI-assisted resume generation platform focused on concise, professional one-page resumes.
- Built local-first AI agents and developer productivity tooling powered by open-source language models running on consumer hardware.
- Active mentor and contributor within DevOps, Platform Engineering and Cybersecurity communities; facilitator of workshops on OPA, platform security and engineering automation.