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Top Skills

Hugging Face Products
jupyter notebook
RAGAS

Languages

Marathi
Hindi (Native or Bilingual)
English (Full Professional)

Certifications

Executive PG Programme in Data
Science_September 2022_IIT-B:
Data Engineering Specialization
Learning Vagrant
Kubernetes: Microservices
CAPA: Certified Argo Project
Associate

Honors-Awards

Finalist - Techgig Code Gladiator
2017 (DevOps Theme Round)
bravo award

Ashish Kamat

Lead DevOps | Site Reliability Engineer | Platform Engineer | MLOps
(Building) | Agentic AI (Exploring) | Kubernetes | GitOps | AWS
| Terraform | LangChain | MLflow | SRE | Cloud | Python | Infra
Automation | Europe
Mumbai, Maharashtra, India

Summary

Experienced DevOps, Site Reliability (SRE), and Platform Engineer with 10+ years of proven success building, scaling, and operating large-scale cloud infrastructure for global product companies across Europe and international markets.

Currently expanding into MLOps and Agentic AI Infrastructure, combining my strong platform engineering background with emerging AI/ML operations to support next-generation intelligent systems.

Core Achievements:

- # Improved deployment speed by 60% and reduced deployment errors by 50% through GitOps adoption (ArgoCD, Kubernetes) and fully automated CI/CD pipelines.
- # Reduced production incidents by 40% with proactive observability (Prometheus, Grafana) and incident automation.
- # Migrated 100+ microservices into Kubernetes with built-in DevSecOps, observability, autoscaling, and zero-downtime deployments.
- # Built serverless CI/CD pipelines deploying 50+ Lambda functions with real-time observability and security compliance.
- # Architected highly secure healthcare data pipelines fully compliant with GDPR, HIPAA, ISO standards.
- # Delivered 30% cloud cost optimization while improving reliability and system scalability.

Technical Skills:

Cloud Platforms: AWS (EC2, EKS, Lambda, S3, RDS), GCP, Azure
Containerization: Docker, Kubernetes, Helm, Kustomize
Infrastructure as Code: Terraform, CloudFormation, Ansible

CI/CD & GitOps: GitHub Actions, GitLab CI, Jenkins, ArgoCD, FluxCD
Monitoring & Observability: Prometheus, Grafana, ELK Stack, OpenTelemetry
MLOps (In Progress): MLflow, Kubeflow, Airflow, Model Monitoring, Feature Store
Agentic AI Infrastructure (Learning): LangChain, Crew AI, Pydantic
Security & Compliance: DevSecOps, GDPR, HIPAA, ISO 27001
Programming: Python, Bash, Go, SQL, Pandas, NumPy, TensorFlow
Version Control: Git, GitOps Workflows

Recently Initiated MLOps & Agentic AI Experience:

Building hands-on MLOps pipelines integrating ML model versioning (MLflow), experiment tracking, model serving on Kubernetes, and monitoring pipelines.

Working on AI data pipelines with vector databases (FAISS, Pinecone, OpenSearch) for Retrieval Augmented Generation (RAG) use cases.

Exploring agentic AI orchestration using LangChain, DSPy, and RetrievalQA frameworks to build AI-powered applications with dynamic knowledge retrieval and multi-step agent workflows.

Actively learning LLM infrastructure deployment and best practices for secure, production-grade AI platform operations.

Open to opportunities across India, Europe (Germany , Netherlands ,Switzerland , UK) , Asia,Middle-East

Experience

Nielsen

Staff DevOps/MLOps Enginneer (Lead Engineer)

August 2024 - Present (1 year)

Bengaluru, Karnataka, India

- Designed and Lead efforts of cost optimization framework for Kubernetes clusters running on EKS using a blend of open-source tools and in-house built tools. This helped the team and the overall company reduce costs on Kubernetes and overall AWS resources by up to 60%. (Currently working on the next generation of this using Agentic AI.)

- Designed and automated CI/CD pipelines for LLM-based services using GitLab CI, Terraform, and containerized workflows on AWS EKS.
- Owned GitLab management and created chatbot-driven automation for auto-approving changes of repository ownership, merge request approvals, runner onboarding, etc.
- Collaborated closely on a daily basis with Data Engineers and Data Scientists to enable seamless deployment of GenAI applications, including fine-tuned LLMs and RAG-based solutions.
- Lead efforts of Implementation of AWS CloudWatch synthetic canary dashboards and end-to-end automation processes such as Infrastructure as Code using Terraform, GitLab pipelines, and parameterization for flexibility across services—enhancing system and application performance, including monitoring stack (Prometheus + Grafana), by 60%.

Walmart Global Tech

2 years 11 months

Senior Platform/DevOps/MLOPs Engineer (Tech Lead)

January 2023 - August 2024 (1 year 8 months)

Bengaluru, Karnataka, India

- Implemented Git-ops for Kubernetes-based machine learning applications, reducing deployment errors by 50%.
- created GitOps based deployment using ArgoCD for inhouse cloud-native Kubernetes platforms, achieving 40% faster time-to-insight with optimized data pipelines and real-time processing. Created custom Helm charts and pipelines, achieving 25% less downtime with containerization and collaboration with DevOps engineers, improving user experience.

Senior Site Reliability Engineer

October 2021 - December 2022 (1 year 3 months)

Bengaluru, Karnataka, India

Part of the Centralised SRE team who is responsible for the development, enhancement, and support for Walmart's own proprietary CI-CD tools such as looper, concord (<https://concord.walmartlabs.com>), oneops, and WCNP (Walmart cloud-native platform)

- designed, architect, implemented, and onboarded multiple teams/ applications to follow the GitOps way and rolled our ArgoCD for Kubernetes-based deployment
- designed, architect, and onboarded a couple of teams from Looper (Walmart's own CI tool) to Gitlab by creating end to end to pipeline creation,

project administration, and Integration with other Walmart's CI/CD tools such as Concord, Github

- designed, architect, implemented, and migrated monitoring dashboards of various Jenkins/Looper dashboards to the single centralized dashboard with the creation of custom and standard metrics which helps an on-call person to troubleshoot issues easily
- designed, architect, and implemented a Single source of the dashboard to monitor Infrastructure getting used behind all CI/CD tools and removing the dependency of Bastion host to run ad-hoc Ansible tasks by giving UI trigger feature.
- researched and implemented Configuration as Code feature for Looper by which UI tasks that are getting performed by a part of CRQ can be eliminated with the use of filters and CLI commands
- Helping various product teams to migrate their monolithic applications to microservice-based architecture by the creation of Helm charts, and customized pipelines suitable for deployment on WCNP, a multi-cloud cloud-native Kubernetes platform
- as part of the cross-team member, written various custom CRDs and controllers to support cloud-native deployments on WCNP

Cimpress India

Senior Devops Engineer

April 2021 - October 2021 (7 months)

Mumbai, Maharashtra, India

As a senior member of the centralized DevOps team, leveraged expertise in AWS DevOps, Kubernetes, Terraform, GitLab, serverless frameworks, and observability tools to optimize serverless deployment times, resulting in a 20% improvement in deployment speed and 50% reduction in downtime, while ensuring 99.99% uptime and real-time visibility into application performance.

HERE Technologies

Senior Devops Engineer

June 2019 - April 2021 (1 year 11 months)

Mumbai Area, India

As Senior Member of a team, implemented a DevOps platform and successfully onboarded 70+ microservices onto Kubernetes, reducing production incidents by 40%, improving mean time to resolution by 50%, achieving a 50% reduction in deployment time, ensuring 99.99% uptime and real-time monitoring of application performance, and optimizing data processing by 40% through the implementation of machine learning pipelines.

CitiusTech

Senior Software Engineer

April 2018 - May 2019 (1 year 2 months)

Mumbai Area, India

Client: GE Healthcare

As a senior member of the centralized DevOps team, leveraged expertise in AWS DevOps, Kubernetes, Terraform, GitLab, serverless frameworks, and observability tools to optimize serverless deployment times, resulting in a 20% improvement in deployment speed and 50% reduction in downtime, while ensuring 99.99% uptime and real-time visibility into application performance.

Accelya Group

Cloud Developer

March 2017 - February 2018 (1 year)

Thane, Maharashtra, India

Developed a monitoring dashboard for B2B airline clients in collaboration with architects, utilizing AWS CLI, Python, and Boto3 to gather and analyze metrics for CPU, memory, and Java processes on various web servers, resulting in a 30% increase in performance and a 50% reduction in downtime. Streamlined build and deployment activities by implementing Docker containerization for stage and pre-production environments with Ansible and AWS CLI, providing Linux engineering support for RTO/RPO monitoring, resulting in a 40% reduction in deployment time and a 70% improvement in system availability.

Cybage

DevOps Engineer

September 2014 - September 2016 (2 years 1 month)

Pune Area, India

As a member of the ALM R&D team, implemented CI/CD for LAMP stack apps, resulting in a 40% faster deployment and 50% reduction in errors, trained teams in Atlassian tools and Git, increasing collaboration efficiency by 40%, and served as the SME for complete pipeline setup, achieving a 50% improvement in system efficiency and a 60% reduction in system downtime.

Education

Liverpool John Moores University

Master's degree in Data Science, Data Science · (January 2024 - January 2025)

International Institute of Information Technology Bangalore
Postgraduate Degree, Data scientist · (July 2022 - July 2023)

Vidyanidhi Info Tech Academy
Diploma in Advanced Computing, PG-DAC · (2014 - 2014)

University of Mumbai
Bachelor's degree, Computer Engineering · (2009 - 2013)

VEHS & Jr College Vashi
HSC, Science · (2007 - 2009)