KANAV SHARMA

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https://github.com/Kanav14 | https://kanav14.github.io/Portfolio/

Summary

DevOps Engineer with a proven track record in automating processes, enhancing deployment efficiency, and optimizing CI/CD pipelines. Pursuing Master's in Information Systems with hands-on expertise in cloud platforms, including AWS and Azure. Proficient in tools like Python, Ansible, ArgoCD and OpenSearch, complemented by certifications in AWS and Azure. Skilled in driving infrastructure automation and delivering scalable, secure, and reliable cloud solutions.

Education

- **DePaul University** — Jun 2026
  Master of Science: Information Systems — Chicago, IL
  Related Courses: IT Project Management, System Analysis and Design, DBMS, Cloud Computing and ERP
- **Chandigarh Group Of Colleges** — Jun 2019
  Bachelor of Technology: Computer Science — India

Skills

- **Languages:** Python, PowerShell, Groovy, YAML, JAVA
- **DevOps Tools:** Ansible, Docker, Kubernetes, Jenkins, Helm, Vault, ArgoCD, HashiCorp Vault, Microservices
- **Cloud & Monitoring:** AWS, Azure, Prometheus, Grafana, ELK Stack, PowerBI, ServiceNow
- **Databases:** Kafka, Postgres, SQL, Cloudera
- **CI/CD & Automation:** Nexus, GitHub Actions

Experience

Amdocs — Aug 2021 - Aug 2024
DevOps Engineer — Pune

- Led **Digital R&D Team** to automate artifact management in Nexus, reducing manual effort by 40%.
- Developed automation scripts using Shell, Groovy, and Python, achieving a 30% faster release cycle.
- Built AWS infrastructure for deploying Helm charts on EKS, cutting deployment times by 25%.
- Automated OpenShift cluster installations for **"Catalog One" & "Digital One" Applications** using Jenkins, reducing setup time by 40% and completing 15+ installations monthly.
- Managed helm deployments with CI/CD pipeline, making deployment faster by 30% and ensuring 99.9% uptime.
- Implemented a vault automation tool, transferring 500+ secrets monthly and eliminating manual intervention.
- Generative AI tool for internal usage to find solutions for repeated errors using LLM with 90% search success.

Nihilent Ltd — Aug 2019 - Jul 2021
Software Engineer — Pune

- Deployed Java applications on VMware using Ansible, ensuring 99.9% environment consistency for **HSBC**.
- Streamlined deployments on client Linux VMs, which increased overall productivity by 30%.
- Selenium tests with Ansible Tower, increasing test execution speed by 25%.
- Configured HAProxy for optimized load balancing across 30+ servers.
- Monitored and managed 300+ pods using Prometheus and Grafana.
- Implemented centralized logging and monitoring for troubleshooting, reducing incident response time by 40%.

Projects

WeatherFlow - Open Source Data Engineering Project

- Built a recursive weather data collection system using Python and Postgre DB, processing 50K+ API calls daily.
- Containerized application using Docker and Kubernetes reducing deployment time by 65% for 20+ helm charts.
- Set up monitoring and CI/CD, Prometheus and Grafana with GitHub Actions, achieving 90% test coverage.

DocuHub - Documentation Platform

- Devised a platform using ArgoCD and GitHub Pages with 95% vulnerability detection rate.
- Automated server configurations using Ansible and Shell to manage 5+ environments with 99% uptime.
- Created build and deployment workflows using GitHub Actions and Python, reducing manual mediation by 90%.

Certifications

- Certified Azure DevOps Engineer Expert
- Certified AWS DevOps Engineer Professional

Patents

- **Cricket Monitoring System**: Microwave based system with 99% accuracy **(201911004796)**.
- **Analyzing Consumer Behavior**: AI system 85% efficiency in results for loan lending **(201911031034)**.