

SHREYASH SINGH

📞 9336163340 ✉️ chauhanshreyash357@gmail.com 🔗 LinkedIn 🌐 GitHub 📁 Portfolio

Education

Lovely Professional University

Bachelor's of Technology in Computer Science And Engineering

2022 - 2026

Jalandhar, Punjab

Projects

Robot Shop Microservices Deployment | AWS EKS, Helm, CI/CD, GitOps

June 2024

- Deployed a **10-microservice** e-commerce application, containerized with **Docker** and orchestrated on **AWS EKS** using **Helm**, delivering scalable and highly available services.
- Automated CI/CD pipeline using **GitHub Actions & Argo CD**, enabling GitOps-driven deployments, reducing manual effort by **80%** and accelerating release cycles.
- Integrated multi-language microservices stack (Node.js, Python, Java, Go, PHP) with MongoDB, MySQL, Redis, RabbitMQ, and monitoring via **Prometheus, Grafana, ELK/EFK**.
- Configured **HPA**, health checks, and **AWS ALB**, achieving **40%** higher reliability, **25%** faster response times, and ensuring **24/7** production-grade uptime.

Cloud-Native Deployment on AWS EKS with Fargate | Docker, AWS EKS, Fargate

September 2024

- Deployed a containerized **2048 web app** on Amazon **EKS** with **Fargate**, reducing operational overhead by **30%** and improving release efficiency by **25%**.
- Built with **Docker** and deployed via **Kubernetes Deployments, Services, and Ingress**, ensuring smooth scalability and cutting build/release cycles by **25%**.
- Automated cluster provisioning with **eksctl** and **AWS CLI**, reducing setup time by **85%** and achieving **99.9% uptime**.

DevSecOps-Integrated CI/CD Pipeline | Jenkins, GitLab CI, GitHub Actions,

January 2025

- Built **CI/CD** pipelines using **Jenkins, GitLab CI, and GitHub Actions**, automating build, test, and deployment to cut manual effort by **80%** and accelerate release cycles.
- Containerized applications with **Docker** and deployed on **Kubernetes**, leveraging **Helm** and **Argo CD** for GitOps-driven, scalable deployments.
- Integrated security checks with **Trivy, Snyk, and SonarQube**, implementing security-as-code practices, reducing vulnerabilities by **30-40%**.
- Optimized pipeline efficiency with parallel pipelines **stages** and **automated notifications**, cutting deployment time from **2 hours to 20 minutes**, while maintaining production-grade reliability and compliance.

Kubernetes Security Automation | Kyverno, Argo CD

October 2025

- Managed multi-cloud **Kubernetes** clusters that required automated enforcement of security, governance, and compliance policies.
- Developed and applied **Kyverno** policies for generate, validate, mutate, and image verification tasks, and integrated **Argo CD** for automated **GitOps**-based deployments.
- Achieved **100%** cluster-wide policy compliance, significantly reducing misconfigurations and enhancing overall **Kubernetes** security posture.

Technical Skills

Languages: Java, C++, Bash, Groovy

DevOps & CI/CD Tools: Docker, Kubernetes, Jenkins, GitHub Actions, GitLab CI, Argo CD

Cloud & Monitoring: AWS, Azure, IBM Cloud (Basics), Prometheus, Grafana, ELK/EFK Stack, Instana

Configuration Management & IaC: Ansible, Terraform, Helm

Version Control: Git, GitHub

Operating Systems & Security: Ubuntu, Linux, Trivy, Snyk, SonarQube, IAM Roles & Policies

Certifications

Prompt Engineering for ChatGPT, Stanford University

July 2024

Introduction to **IBM Cloud**

May 2025