

# GAURAV CHAUHAN

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## SKILLS

**Languages & Scripting:** Python, Bash, PowerShell, Groovy, YAML, HCL

**Cloud Platforms:** AWS (EC2, IAM, VPC, ELB, ASG, S3, ECS, EKS, Lambda, Route53, Elastic Beanstalk), Azure (Basics)

**Infrastructure as Code:** Terraform, AWS CloudFormation

**DevOps Tools:** Docker, Kubernetes, Ansible, Jenkins, GitHub Actions, GitLab CI/CD, AWS CodePipeline

**Monitoring & Security:** Prometheus, Grafana, SonarQube, Trivy, OWASP Dependency-Check, Aqua Security, GitLeaks

**Version Control & OS:** Git, GitHub, GitHub Actions, GitLab, Linux (RedHat, Ubuntu), Windows

**Other Tools:** NGINX, Apache HTTPD, Podman, Docker Compose, NFS, Samba, Maven, FTP/SFTP, SSL.

## WORK EXPERIENCE

**Cloud Computing Intern | Hoping Minds:** [Link](#) Jan 2024 -Jun 2024

- Utilized 20+ AWS services including **EC2, ELB, ASG, ECS, EKS, Lambda, VPC, IAM, CloudFormation**, and **CloudWatch** to build scalable cloud solutions.
- Deployed infrastructure using **AWS CloudFormation** and implemented CI/CD pipelines with **AWS CodePipeline** to automate build and deployment processes.
- Managed containerized workloads on **ECS** and **EKS**, increasing deployment efficiency by 35% and maintaining 99.99% application uptime.
- Configured **IAM policies** for secure access control, monitored resource performance with **CloudWatch**, and optimized cost through usage analysis.
- Gained practical experience in **cloud networking, containerization**, and **serverless architectures** within production-like environments.

## PROJECT WORK

**3-Tier DevSecOps Mega Project:** [Github](#) Jul-2025

- Built a 3-tier DevSecOps setup from the ground up, deploying a **Node.js** backend and **React** frontend on **Amazon EKS**, with infrastructure managed through **Terraform**.
- Set up secure access to the **Kubernetes cluster** using **IAM-based RBAC**, and configured **HTTPS** with Let's Encrypt and **Hostinger DNS** using **Kubernetes Ingress**.
- Created a **Jenkins** CI/CD pipeline to automate testing, builds, and deployments, with integrated tools like **SonarQube, Trivy**, and **GitLeaks** for code quality and security checks.
- Focused on making the deployment process secure, scalable, and cloud-native by combining **container** orchestration with automated vulnerability scanning and static analysis

**BoardGame K8s Deployment Pipeline:** [Github](#) Jun-2025

- Developed a fully automated **CI/CD pipeline** using **Jenkins** for build, test, security scanning (**Trivy**), and deployment of a Java-based BoardGame application.
- Set up and managed a 3-node **Kubernetes** cluster for scalable **container** orchestration.
- Integrated **Nexus** as an **artifact repository** and **SonarQube** for continuous code quality analysis.
- Implemented **monitoring & alerting** using **Prometheus, Grafana**, and exporters to ensure application reliability.

**AWS DevOps Pipeline Project:** [Github](#) Dec-2024

- Created a production-grade CI/CD pipeline using AWS-native tools to automate web app deployment, addressing scalability and operational efficiency.
- Integrated **CodePipeline, CodeBuild**, and **CodeDeploy** for seamless delivery to **EC2 instances** running **httpd**.
- Configured **IAM, S3**, and **GitHub** integration to enable secure source control and artifact management.
- Automated deployment with **buildspec.yml** and **appspec.yml**, enabling consistent build, install, and validation workflows.
- Set up **CloudWatch Logs** for real-time monitoring and pipeline troubleshooting.

## CERTIFICATIONS

- AWS Certified Solutions Architect – Associate (SAA-C03) [Link](#) May 2025 - May 2028

## ACADEMIC PROFILE

Chitkara University , Punjab

Bachelor of Technology in Information Technology

June 2020 - Aug 2024

CGPA: 8.70/10