# Aviral Agarwal

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## Summary

Motivated and detail-oriented **DevOps Engineer (Fresher)** Passionate about optimizing development workflows, automating infrastructure, and ensuring seamless deployment processes. Enthusiastic about learning and implementing industry best practices in **DevOps, cloud security, and monitoring**. Seeking an opportunity to apply my skills and grow in a dynamic DevOps environment.

## Education

**Vellore Institute of Technology (Bhopal)**, Masters in Computer Application (MCA)    Aug 2023 – June 2025

**Amity University Rajasthan**, Bachelor in Computer Application (BCA)    Apr 2020 – Aug 2023

## Experience

**Web Developer Intern, InternPe**    Jul 2023– Aug 2023

- Contributed to multiple projects, enhancing web development skills through hands-on experience.
- Collaborated with senior developers to design, build, and maintain web applications, gaining proficiency in front-end and back-end technologies.
- Applied knowledge of HTML, CSS, JavaScript, and relevant frameworks to deliver effective solutions and improve user experience.

## Projects

**E-COMMERCE DEVOPS Implementation**    github.com

- Implemented DevOps practices such as containerization, Container orchestration, Infrastructure as Code and CI/CD for a demo E-commerce project.
- Experience implementing DevOps practices on multi micro service architectured applications.
- Good Understanding of AWS cloud and experience using AWS networking concepts like VPC and Load balancers.
- Exposing the Frontend securely to the external users by mapping the Route 53 DNS nameservers with the Domain provider

**DevOps Monitoring Project**    github.com

- **Containerized** the application using **Docker** and managed multi-container deployments with **Docker Compose**.
- Orchestrated deployment using **Kubernetes (EKS)** with a **LoadBalancer IP** to enable scalable and high-availability architecture.
- Implemented **CI/CD pipelines** using **Jenkins**, automating code integration, testing, and deployment for a streamlined development lifecycle.
- Secured and optimized deployment by managing **AWS networking components**, including **VPC, security groups, and IAM roles**.
- Configured **Prometheus and Grafana** for real-time monitoring and alerting, ensuring system performance, availability, and reliability.

## Technical Skills

**Skills:** Docker , Kubernetes , Git/Github , Shell Scripting , Terraform, CI/CD - (Jenkins / Github Actions), AWS