

# Namit Agrawal

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## Summary

DevOps Engineer with hands-on experience in CI/CD pipelines, Docker, Kubernetes, AWS, and automation. Currently working as DevOps Intern at Cut Edge Technology, building and deploying containerized applications, automating deployment workflows, and managing cloud infrastructure. Passionate about leveraging DevOps best practices to drive efficiency and scalability.

## Skills

- **DevOps Tools:** Jenkins, Docker, Kubernetes, Ansible, Maven, Git, GitHub, Terraform, Jira
- **Cloud:** AWS (EC2, S3, RDS), Docker Hub
- **OS:** Linux (Ubuntu, Mint)
- **CI/CD:** Jenkins Pipelines, GitOps, Continuous Integration, Continuous Deployment, GitHub Actions

## Experience

### DevOps Intern

*November 2025 – Present*

*Cut Edge Technology Pvt. Ltd., Gurugram, Haryana (Remote)*

- Designed and implemented automated CI/CD pipelines using Jenkins, reducing deployment time by 40%
- Containerized microservices applications using Docker, ensuring consistent environments across dev, staging, and production
- Orchestrated containerized applications with Kubernetes, implementing auto-scaling and self-healing capabilities
- Provisioned and managed AWS cloud infrastructure including EC2 instances, S3 buckets, RDS databases, and VPC configurations
- Automated infrastructure deployment using Infrastructure as Code (IaC) principles with Terraform and configuration management tools
- Monitored system performance using industry-standard tools, maintaining 99.9% uptime

## Projects

### Dockerized PHP Application with AWS CI/CD

*2025*

- Developed PHP application and containerized using Docker with optimized Dockerfile for production deployment
- Created AWS RDS MySQL database instance and configured secure VPC networking for database connectivity
- Built Jenkins CI/CD pipeline with GitHub webhook integration for automatic triggering on code commits
- Configured Jenkins pipeline stages: SCM checkout, Docker image build, push to Docker Hub, and automated deployment to AWS EC2
- Set up AWS EC2 instance with Docker, pulled images from Docker Hub, and orchestrated container deployment
- Implemented environment variable management for secure database credentials and application configuration

- Tested live application functionality including CRUD operations and database connectivity on production server

**Skills:** Docker, Jenkins, AWS EC2, AWS RDS, CI/CD, PHP, MySQL, Git, GitHub Webhooks, VPC Networking

### **Django Todo App with CI/CD Pipeline**

*2025*

- Built full-featured Todo application using Django framework with SQLite database backend
- Created Dockerfile for Django application with all dependencies and static file configuration
- Designed Jenkins declarative pipeline with stages for code checkout, Docker build, image tagging, and deployment
- Integrated GitHub repository with Jenkins using webhooks for continuous integration on every push
- Automated Docker image building and pushing to Docker Hub registry with version tagging
- Deployed containerized Django app on remote server with automated container restart policies
- Configured port mapping and volume mounting for persistent data storage across deployments

**Key Technologies:** Django, Python, Docker, Jenkins, Git, GitHub, Docker Hub, SQLite, CI/CD Automation

### **MERN App with Docker Compose**

*2025*

- Developed full-stack MERN application with separate frontend (React), backend (Express/Node.js), and MongoDB database
- Created individual Dockerfiles for frontend and backend services with multi-stage builds for optimization
- Designed docker-compose.yml to orchestrate all three services with custom bridge network configuration
- Implemented Docker networking for secure inter-service communication between frontend, backend, and database
- Configured environment variables for database connection strings and API endpoints across services
- Set up volume mounting for MongoDB data persistence and backend code hot-reloading during development
- Enabled single-command deployment with `docker-compose up` for consistent environment setup

**Tech Stack:** MongoDB, Express.js, React.js, Node.js, Docker, Docker Compose, Docker Networking, YAML

### **Web App Deployment with Docker on AWS EC2**

*2025*

- Developed Node.js + Express web application with REST API endpoints and frontend interface
- Created production-ready Dockerfile with Node.js base image and optimized layer caching
- Built and tagged Docker image locally, then pushed to Docker Hub public registry
- Launched and configured AWS EC2 instance (Ubuntu) with Docker engine installation
- Pulled Docker image from Docker Hub to EC2 and deployed container with port mapping configuration
- Configured security groups and inbound rules for HTTP/HTTPS traffic on AWS EC2
- Implemented health checks, container logging with `docker logs`, and restart policies for reliability
- Monitored application performance and logs to ensure stable production deployment

**Skills:** Node.js, Express.js, Docker, AWS EC2, Docker Hub, Linux, Security Groups, Container Management

## Education

**Bachelor of Arts**, Barkatullah University, Bhopal

*2020–2023*

## Certifications

- Top 10 DevOps Tools Workshop – Comprehensive training on industry-leading DevOps tools and practices
- Hands-on certification in Docker containerization and orchestration technologies

## Key Strengths

Quick learner, documentation-focused, strong team collaboration, reliable, and detail-oriented. Proven track record of reducing deployment times and maintaining high system uptime through automation and best practices.

**Keywords (ATS):** DevOps, CI/CD, Docker, Jenkins, Kubernetes, AWS, EC2, S3, RDS, Terraform, Ansible, Maven, Linux, Python, Bash, IaC, Microservices, Container Orchestration, Cloud Infrastructure, GitOps, Monitoring, Automation