

APOORV VERMA

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Education

MS in Computer Information Systems - Boston University, MA, USA

May 2025

- **Graduate Teaching Fellow** for courses: Data Science with Python (CDS DS110) and Machine Learning & AI (CDS DS340)

B.Tech in Computer Science - Shri Vaishnav Institute of Information Technology, India

Jul 2021

Experience

DevOps Engineer - Gyworkz Technologies

India, Apr 2023 – Aug 2023.

- Implemented and maintained end-to-end CI/CD pipelines using GitHub Actions, ArgoCD, Docker, Apache Maven, and Octopus, resulting in a 50% reduction in release time and a 30% increase in release reliability.
- Spearheaded Prometheus and Grafana monitoring, achieving 99.9% uptime and optimizing response time by 20% in production for enhanced availability, reliability, and scalability.
- Led migration of CloudFormation templates to Terraform HCL (for VPC, ECS/EKS, RDS, IAM roles and S3), consolidating 200+ lines of YAML into 10 reusable modules; enhanced maintainability and reduced drift by 95%.
- Authored and enforced Git-flow branching standards, pre-merge SonarQube quality gates, and embedded security scanning into CI/CD using Snyk and Trivy—cutting deployment lead time by 30% and slashing post-release defects by 40%.
- Developed and maintained 20+ Azure Functions in Python(and R-in-Docker), orchestrating high-compute analytics pipelines and automated CI/CD with Azure Pipelines and Terraform, cutting feature-release lead time from 2 weeks to 2 days.
- Achieved OAuth2/JWT security flows and wrote comprehensive unit/integration tests, achieving 90% code coverage.

Software Development Engineer - Gyworkz Technologies

India, Jul 2021 – Mar 2023

- Collaborated with projects to develop efficient Git source code branching and versioning processes, improving collaboration and version control, resulting in a 20% reduction in code conflicts and ensuring smoother code merges.
- Automated 300+ server configurations using Ansible Playbooks across hybrid cloud environments and reduced AWS spend by 38% through rightsizing EC2 instances, implementing Spot Instance strategies, and automating resource cleanup pipelines.
- Engineered robust CI/CD pipelines using Jenkins & GitLab, automating building, testing, and deployment processes across multiple environments, resulting in a 40% reduction in deployment time and lifting development productivity.
- Directed design and deployment of a global GraphQL engine on AKS, serving 1M+ daily requests with 99.9% uptime and collaborated with teams to integrate Apollo-based GraphQL queries, improving velocity and reducing network payloads by 30%.
- Created custom Docker images and supervised container lifecycle with Kubernetes pods, replication controllers, namespaces, and deployments using YAML configuration files and utilized Helm for managing Kubernetes charts.

Software Engineer - Digital Projekt

India, Jul 2020 – Jun 2021

- Architected and deployed highly scalable and fault-tolerant cloud infrastructure on AWS, leveraging VPC, EC2 instances, auto-scaling groups, and load balancers, resulting in a 99.99% system uptime and a 30% reduction in downtime.
- Led release planning meetings, collaborating with key stakeholders to strategize the sequencing of release packages, resulting in a 20% reduction in release conflicts and redesigned alignment with project scope and schedule.
- Enabled automated monitoring and alerting systems using CloudWatch, identifying and resolving system issues, resulting in a 50% reduction in response time and ensuring optimal system availability.
- Spearheaded back-end development on three startup products; launched and authored pivotal microservices for engagement slot creation (API Gateway, SQS, and Lambda); and processed over 100K transactions monthly with a 99% success rate.

Academic Projects

Shipment Tracking System

Oct 2024 – Dec 2025

- Orchestrated Docker file creation and built custom Docker container images for 5+ Microservices.
- Architected a highly scalable Kubernetes cluster in AWS, creating and deploying 10+ manifest files for services in a master-worker cluster setup, illustrating proficiency in designing and implementing scalable infrastructure solutions.
- Deployed the Elastic Stack for centralized logging and monitoring of application logs through Kibana, leveraging Grafana dashboards to track and analyze 10+ key performance metrics, improving troubleshooting and issue resolution speed.
- Developed a Jenkins file and designed a robust CI/CD pipeline using Jenkins, reducing manual work by 85% and achieving faster and more reliable deployments.

Skills

DevOps Tools Expertise: AWS (EC2, VPC, EKS, ECS Fargate, CloudFormation, Auto-Scaling), Terraform, Kubernetes, Docker, Jenkins, Prometheus/Grafana, GitFlow, Nginx, Apache Maven, ELK Stack

Familiar with: Ansible, Helm, SonarQube, Azure, GCP, Nexus/JFrog Artifactory, Snyk, Datadog

Languages & Clouds: Linux, Bash, Python, SQL, TypeScript, JavaScript, Java, C++, GraphQL, AWS, Azure, GCP

Frameworks & DBs: Node JS, React JS, Next.js, PostgreSQL, MySQL, Redis, DynamoDB, Amazon RDS