APOORV VERMA

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Education

MS in Computer Information Systems - Boston University, MA, USA   May 2025
- **Graduate Teaching Fellow** for Data Science with Python (Course Code: CDS DS 110)

B.Tech in Computer Science - Shri Vaishnav Institute of Information Technology, India   Jul 2021

Experience

DevOps Engineer - Gytworkz Technologies   India, Apr 2022 – Aug 2023

- Engineered automated release-note generation via CI/CD pipelines using GitLab, Jenkins, ArgoCD, and Octopus - accelerating stakeholder sign-off by 50% and cutting deployment errors by 20%.
- Architected a unified observability platform using Prometheus, Grafana, and Jaeger, reducing Mean Time to Detect issues by 70% and Mean Time to Resolve by 60% and utilized Datadog for complete system visibility.
- Created custom Docker images and managed container lifecycle with Kubernetes pods, replication controllers, namespaces, and deployments using YAML configuration files and utilized Helm for managing Kubernetes charts.
- 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; improved maintainability and reduced drift by 95%.
- 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 scalable backend solutions for critical services - including real-time appointment booking (SQS, Lambda), chat systems (Socket.IO), and Geofencing (PostgreSQL with PostGIS) - that handled 2,000+ concurrent bookings daily.

Software Development Engineer II - Gytworkz Technologies   India, Jul 2021 – Mar 2022

- Architected and built a scalable back-end communication service for a Dynamic Contact Center with Spring and Twilio APIs, supporting over 10K daily interactions, while collaborating with product owners to refine technical specifications.
- Led back-end development on three startup products; launched and implemented pivotal microservices for engagement slot creation (API Gateway, SQS, and Lambda); and processed over 100K transactions monthly with a 99% success rate.
- Worked closely with key stakeholders to migrate and scale a fleet management application backend from MongoDB to PostgreSQL and Node.js (TypeScript), improving operational efficiency by 60%, ensuring seamless data transition.
- Spearheaded creation of database architecture and REST APIs for Inspection Tracking System in a fleet management platform, simplifying workflows for 500+ vehicles and cutting data retrieval times by 35%, based on stakeholder-driven priorities.
- Streamlined a robust RBAC system with hierarchical fine-tuning, ensuring secure and regulated access for 500+ users.

Software Engineer - Digital Projekt   India, Jul 2020 – Jun 2021

- Developed a cloud-based contact center leveraging AWS Connect for voice and text communication, including AWS services: Lambda, API Gateway, S3, DynamoDB, RDS, Pinpoint, SNS, IAM, and CloudWatch to enhance system performance.
- Implemented a collaborative CRM system with role-based communication capabilities integrating AWS Connect, SNS, Twilio Voice, and Zoom APIs, serving 1,000+ unique active users monthly through regular stakeholder feedback sessions.
- Designed and maintained 10+ responsive front-end applications with Angular, ReactJS, & NextJS; established project wireframes in Adobe XD & Figma and used GitLab with Netlify to collaborate, deploy and host these web applications.

Academic Projects

Finance Tracker (Link) – *NextJS, Hono, Drizzle ORM, Clerk, Neon, PostgreSQL, Tailwind CSS*   Oct 2024 – Dec 2024
A Web application that helps users manage personal finances by tracking income and expenses, categorizing payments, and visualizing spending habits through charts.

Portfolio Website v2 (Link) – *NextJS, Typescript, Tailwind CSS, Framer Motion, Netlify*   Nov 2024
Revamped iteration of a previous website to showcase portfolio and projects, boosting UI/UX and Lighthouse performance.

Shipment Tracking System – *Kubernetes, Docker, Jenkins, CI/CD pipelines*   July 2024 – Sept 2024
Orchestrated Docker file creation and built custom Docker container images for 5+ Microservices and Architected a highly scalable Kubernetes cluster in AWS, creating and deploying 10+ manifest files for services in a master-worker cluster setup.

Skills

DevOps tools Expertise: AWS (EC2, VPC, EKS, RDS, ECS Fargate, CloudFormation, Auto-Scaling), Terraform, Kubernetes, Docker, Jenkins, Prometheus/Grafana, GitFlow, Nginx, Ansible, Helm

DevOps tools Familiarity: Apache Maven, SonarQube, Datadog, Azure, GCP, Nexus/JFrog Artifactory, Snyk

Languages/Frameworks: Java, C#, Typescript, Python, Javascript, C++, Bash, Spring, .NET, Node JS, Angular, React JS

Databases & Tools: PostgreSQL, MySQL, Amazon RDS, MongoDB, Redis, DynamoDB, Postman, Swagger, Heroku