

Vineet Singh

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Skills

Languages: C/C++, Python, JavaScript, TypeScript, SQL

Backend: Node.js, Mongodb, Express.js, REST API, Postman ,JavaScript , TypeScript, Mongoose

Cloud Computing : AWS, EC2, S3, VPC , IAM, Lambda, EKS, ECS, ECR, AWS Codebuild, AWS CodePipeline, AWS CodeDeploy, Systems Manger, Security Manger

Devops Tools: Docker, Kubernetes, Terraform, Ansible, Jenkins, Github Action, Shell scripting, python boto3

Education

JECRC University, Jaipur

Aug 2024 - Jun 2026

MCA in AWS Cloud Computing

CGPA: 7.96/10

Relevant Coursework: Object Oriented Programming, Databases, Data Structures and Algorithms, Operating Systems, Computer Networks, AWS Cloud, Cloud Security Web Technologoy, , Advance Data Structures and Algorithms, Course Cirtification:AWS Cloud Practitioner Certified, AWS Certified Developer – Associate

SS Jain Subodh College, Jaipur

Aug 2021 - Jun 2024

Bachelor of Computer Applications (BCA)

CGPA: 8.0/10

Relevant Coursework: Programming in C/C++, Web Development, Database Management Systems, Software Engineering, Operating Systems, Computer Networks, Data Structures

Projects

Automated CI/CD Pipeline for MERN Stack on AWS

GitHub: [vinsin21/MERN-AWS-CICD-Pipeline](https://github.com/vinsin21/MERN-AWS-CICD-Pipeline)

Implemented a fully automated CI/CD pipeline for a containerized MERN (MongoDB, Express.js, React, Node.js) application using AWS services and Docker.

- Designed a CI/CD workflow with **AWS CodePipeline, CodeBuild, and CodeDeploy** to ensure zero-downtime deployments on **Amazon EC2**.
- Built and pushed Docker images for frontend and backend to **Docker Hub**, dynamically updating `docker-compose.yml` during pipeline execution.
- Automated deployments with shell scripts (`before_install.sh`, `start_container.sh`, `stop_container.sh`) executed by the CodeDeploy agent.
- Containerized applications with **Docker Compose** for multi-service orchestration (frontend, backend, MongoDB).
- Leveraged AWS Secrets Manager for secure Docker Hub authentication in the pipeline.

Frontend Deployment on AWS (React/Next.js)

GitHub: [vinsin21/Frontend-AWS-CICD](https://github.com/vinsin21/Frontend-AWS-CICD)

Implemented an automated CI/CD pipeline to build and deploy a React/Next.js application using AWS managed services.

- Designed and automated a deployment workflow with **AWS CodePipeline** and **CodeBuild**, triggered on GitHub main branch commits.
- Built production-ready static files and deployed them to an **Amazon S3** bucket configured for static website hosting.
- Integrated **Amazon CloudFront** as a CDN with cache invalidation for faster global delivery.
- Used **Terraform** to provision and manage AWS resources (S3, CloudFront, IAM, CodePipeline, CodeBuild).
- Automated build and deployment steps using a custom `buildspec.yml` configuration.

Awards and Certificates

- **AWS Cloud Practitioner Certified**