

Rakshith V

Software Developer

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PROFESSIONAL SUMMARY

AWS & Cloud Engineer with 4+ years of experience building scalable, user-focused applications and managing cloud-native infrastructures. Skilled in **AWS-based DevOps practices, CI/CD automation, Docker/Kubernetes containerization, cloud infrastructure management, and performance optimization on AWS**. Known for bridging development and DevOps to deliver reliable, high-quality solutions in fast-paced environments.

WORK EXPERIENCE

Acharya Institutes, Software Developer - ERP Department

11/2021 – Present | Bengaluru, India

- Developed Dockerfiles to automate the creation of custom Docker images for React.js applications, ensuring consistent and reliable builds across environments.
- Integrated Docker with **Kubernetes and AWS EKS** for scalable container orchestration, enabling automated scaling, load management, and self-healing of application instances.
- Designed and implemented **CI/CD pipelines in Jenkins with Docker and AWS integration**, improving release speed, reliability, and deployment automation.
- Participated in end-to-end deployment and maintenance activities, ensuring smooth delivery to production environments and continuous application stability.
- **Managed end-to-end deployment and maintenance activities on AWS EKS**, ensuring smooth production rollouts, stable application performance, and minimal downtime.
- Configured **Amazon ECR** for centralized container image storage and streamlined image versioning in AWS-based environments.
- Implemented **Amazon CloudWatch** monitoring and logging to track cluster health, application metrics, and deployment stability on AWS.
- Applied **AWS IAM role-based access control** to secure interactions between CI/CD pipelines, EKS workloads, and other AWS services.

PROJECTS

ERP APPLICATION

02/2022 – Present

A comprehensive ERP platform built to automate institutional workflows across Student Services, Proctoring, Accounts, Inventory, HR, and Administration. The system streamlined operations such as admissions, fee management, staff-student mapping, financial accounting, inventory control, and secure authentication.

- **AWS & DevOps Contributions – 15% (Enhanced with AWS services)**
 - **Containerized** the entire application using Docker, ensuring environment consistency across development, staging, and production.
 - Developed and optimized **Dockerfiles**, and automated **Docker image builds & push to Amazon ECR (Elastic Container Registry)**.
 - Implemented **CI/CD pipelines using Jenkins**, integrating Git, Docker, and AWS for automated build, test, and deploy workflows.
 - **Deployed and managed the application on Amazon EKS (Elastic Kubernetes Service)** using Kubernetes deployments, services, config maps, and HPA for auto-scaling.
 - Configured **AWS ALB (Application Load Balancer)** for secure, high-availability ingress to Kubernetes workloads.
 - Set up **Amazon RDS** for reliable and scalable database management, with automated backups and multi-AZ failover.
 - Integrated **Amazon S3** for document storage (offer letters, admission files, student documents).
 - Implemented **IAM role-based access** for secure interactions between EKS pods and AWS services.
 - Configured **CloudWatch logging & monitoring** for cluster health, application logs, and CI/CD pipeline insights.
 - Automated deployments to EKS using **Jenkins + kubectl + eksctl** for rolling updates and zero-downtime releases.
- **Student Module – 20%**
 - Developed complete **Student Admission** workflow with validations and API integrations.
 - Implemented **Fee Template creation** for dynamic fee configuration.
 - Built **Offer Letter Generation** functionality.
 - Created **Job Application** module for student recruitment processes.
- **Proctor Module – 10%**
 - Implemented **Proctor Creation** and **Proctor-Student Assignment** with mapping logic.
- **Accounts Module – 15%**
 - Developed **Bank Creation, Voucher Entry, and Ledger Management** screens.
 - Integrated financial APIs and handled audit-friendly data validation.
- **Inventory Module – 10%**
 - Implemented **Vendor Management, Item Creation, and Stock Management** workflows.
 - Ensured data accuracy with form validations and optimized API usage.
- **Authentication & Access – 10%**

- Built secure **Student & Staff Login** pages with JWT/Bearer token authentication.
- Implemented role-based access with token expiration (1-hour validity) and session handling.

SKILLS

Cloud Platforms: AWS (EC2, VPC, S3, CloudFront, CloudWatch, RDS Lambda, Route 53, IAM, EBS, Load Balancing)

Containerization & Orchestration: Docker, Kubernetes, Helm

Infrastructure as Code (IaC): Terraform

CI/CD Tools: Jenkins, Github Actions

Front End: HTML5, CSS, JavaScript (ES6+), React.js, Material-UI, Bootstrap, JSX

Version Control: Git | | Github

CERTIFICATES

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|---|---|
| • AWS Solution Architect
(Microdegree) | • Devops Certification
(Microdegree) |
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EDUCATION

Senior Secondary Education, Vikram PU College	Chintamani, India
Bachelor in Engineering in Electronics and Communication Engineering, <i>CMR Institute Of Technology</i>	Bengaluru, India