

RAMAN KRISHNAN

Tamilnadu, INDIA

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Education

Jayalakshmi Institute Of Technology

Bachelor of Mechanical Engineering

Sep. 2015 – May 2019

Dharmapuri, TamilNadu

Relevant Coursework

- Cloud Computing
- DevOps Practices
- Linux Administration
- Infrastructure as Code
- CI/CD
- Networking Concepts
- Containerization
- Monitoring

Experience

AWS APAC Solutions Architecture Virtual Experience Program

Nov 2024

Participant (Forage – Amazon)

- Engineered a highly scalable hosting architecture using AWS Elastic Beanstalk to address growth and response time challenges for a client's web application, improving scalability by **50%** and reducing latency by **30%**.
- Delivered a client-centric explanation of the proposed architecture, highlighting functionality, cost efficiency, and enhanced system reliability, enabling informed decision-making and improved stakeholder confidence

Mindcloudz

Jul 2024 – Aug 2024

DevOps Intern

Bangalore, Karnataka

- Established optimized CI/CD pipelines with Jenkins and GitHub Actions, cutting deployment time by 40%.
- Implemented and scaled containerized applications using Docker and Kubernetes, ensuring high availability.
- Monitored AWS cloud infrastructure with CloudWatch, improving performance and reducing costs by 20%.
- Automated web app build and Launched, increasing Rolled out frequency from weekly to daily.

Projects

Automated CI/CD Pipeline for Web Applications | Jenkins, Docker, Kubernetes, Terraform, AWS

May 2024

- Streamlined the build and Executed process with Jenkins, cutting manual intervention by 60%.
- Created scalable backend to support 10 concurrent users during testing.
- Provisioned cloud infrastructure with Terraform, automating compute and storage resource setup.
- Created monitoring dashboards with Prometheus and Grafana to optimize system performance.

Cricket Statistics Tracker | Python, Docker, Jenkins, Kubernetes, AWS

Apr 2023

- Developed a real-time cricket score tracker with Python and Docker, Provisioned on AWS EC2, tracking 100+ matches daily.
- Automated CI/CD pipelines with Jenkins, reducing deployment time by 30%.
- Used AWS EC2 instances, Prometheus, and Grafana for real-time monitoring and insights.
- Formulated predictive models analyzing user behavior and historical match data to forecast outcomes, resulting in a significant increase of 10 engaged users interacting with the platform weekly..

Three-Tier Architecture for Scalable Web Application | EC2, CloudFront, CloudWatch, SQS, SNS, IAM

Jan 2023

- Designed a scalable three-tier architecture with React (frontend), Flask (backend), and PostgreSQL (database).
- item Automated infrastructure provisioning using Terraform, achieving consistent deployments and reducing manual setup time by 30%.

Technical Skills

Languages: Python, Java, SQL, HTML/CSS, JavaScript, Bash

Developer Tools: VS Code, Git, Jenkins, Docker, Kubernetes, Terraform, AWS CLI,RDS,Lambda,CloudFormation

Technologies/Frameworks: Linux, AWS, SonarQube, Trivy, Ansible, Prometheus, Grafana,IAM,S3,VPC, EKS.

Leadership / Extracurricular

Event Organizer

2019

College Fest

Jayalakshmi Institute of Technology

- Organized and coordinated events, ensuring smooth operations, managing a team of 10.
- Drove a 20% in event participation through targeted outreach strategies and engaging promotional campaigns.