NABHAN P A

DevOps Engineer

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Objective

Computer Science Graduate seeking a DevOps Engineer role with expertise in AWS cloud services. Skilled in automation, CI/CD, and cloud infrastructure, with a focus on optimizing deployment processes and ensuring system reliability.

Education

MEA Engineering College **2020 - 2024**
B.Tech in Computer Science and Engineering *Kerala, India*

P M S A M A H S S Chemmankadavu **2018 - 2020**
Higher Secondary School *Kerala, India*

P M S A M H S Chemmankadavu **2018**
High School *Kerala, India*

Technical Skills

- **Languages:** Python, MySQL, YAML
- **Cloud Tools:** AWS (*EC2, S3, Lambda, VPC, RDS, CloudFront, Elastic Beanstalk*)
  Terraform, Ansible, kubernetes, Docker.
- **Data and Visualization:** Tableau, PowerBI, MS Office.
- **Others:** Jenkins, Linux, Bash, LaTeX.

Projects

Infrastructure as Code (IaC) with Terraform and AWS | *Terraform, AWS EC2, S3, VPC*

- Automated the provisioning of cloud resources on AWS using Terraform.
- Defined EC2 instances, VPC, subnets, and security groups through Terraform scripts.
- Implemented Terraform state management using S3 bucket for scalability and collaboration.
- Ensured infrastructure consistency and reliability through Terraform apply.

Containerized Sudoku App Deployment | *Docker, Kubernetes, AWS EKS, Jenkins*

- Automated the provisioning of cloud resources on AWS using Terraform.
- Developed and containerized a web-based Sudoku application using Docker.
- Deployed and managed the application on AWS using Kubernetes for orchestration.
- Set up a CI/CD pipeline to automate Docker image builds and Kubernetes deployments.
- Implemented auto-scaling and load balancing to optimize application performance.

Serverless Application Deployment with AWS Lambda and Terraform | *AWS Lambda, API Gateway, Terraform, S3*

- Automated the deployment of serverless applications using Terraform.
- Configured AWS Lambda functions with API Gateway triggers for HTTP requests.
- Managed Lambda code deployment through S3 and automated versioning.
- Ensured infrastructure consistency by managing state with Terraform.

Database Migration to AWS RDS | *RDS*

- Performed seamless migration of an on-premises database to Amazon RDS using AWS Database Migration Service (DMS). Ensured data consistency, minimal downtime, and high availability through multi-AZ setup.

Private Docker Registry Setup and Management | *Docker, Docker Registry, AWS EC2, SSL*

- Set up a private Docker registry on AWS EC2 for secure image storage and distribution.
- Configured SSL for secure image transfer and integrated authentication mechanisms.
- Automated image build and push processes using custom shell scripts.
- Managed image versioning and cleanup to optimize storage usage.

Training

AWS re/Start | *Amazon Web Service*

- Actively engaged in the AWS Restart course, focusing on cloud computing fundamentals and AWS services.
- Developing skills in deploying and managing cloud solutions, including practical experience with AWS tools like EC2, S3, and RDS.
- Gaining hands-on experience with cloud infrastructure setup, automation, and best practices for secure and scalable solutions.

Certifications

* AWS Cloud Practitioner
* Artificial Intelligence and Machine Learning Developer — ***ASAP Kerala*** *and* ***IIT Palakkad***

Publications

AI-Enhanced Precision Crop Rotation Management for Sustainable Agriculture

DOI: 10.1109/ICEMPS60684.2024.10559310

* International Conference on E-Mobility, Power Control and Smart Systems - 2024
* This paper explores the application of artificial intelligence techniques in optimizing crop rotation strategies to enhance sustainability in agriculture. It discusses the utilization of machine learning algorithms to analyze various factors such as soil health, climate conditions, and crop yield data to recommend optimal rotation schedules.

Achievements

- **Presented** Paper Titled "AI-Enhanced Precision Crop Rotation Management for Sustainable Agriculture" at the International Conference on E-Mobility, Power Control and Smart Systems - 2024.

Declaration

I hereby declare that the above given information are true and to the best of my knowledge.

28-03-2025