

# NANTHAKUMAR R

## Solutions Architect || Devops Engineer

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CUDDALORE 607002

AWS Certified Solutions Architect Associate with a year of hands-on experience in designing, deploying, and maintaining scalable, highly available, and fault-tolerant systems on Amazon Web Services (AWS) platform. Possess in-depth knowledge of AWS services including EC2, S3, RDS, VPC, and IAM, and have a proven track record of implementing cost-effective and efficient solutions that meet business needs. Proficient in cloud architecture design, security, and automation using AWS CloudFormation, AWS CLI, and AWS SDKs. Strong communication, collaboration, and problem-solving skills, with a passion for continuous learning and improvement.

## SKILLS

- Cloud Technologies: VPC, AWS CloudFormation, AWS Deployment, Cloud Architecture, Terraform
- Web Development: HTML5, CSS, Bootstrap, JavaScript
- Programming Languages: Python, SQL, C++
- AWS Services: EC2, IAM, EKS/ECS, GitHub, Docker, CI/CD
- Operating Systems: Linux
- Language proficiency: English (fluent), Tamil (native), Hindi (fluent), German (conversational)

## CERTIFICATIONS

- AWS Solution Architect Associate
- Triplebyte Front-End Engineer Proficient
- Terraform
- CloudFormation AWS

## EDUCATION

Bachelor of Technology in Electronics and Communication Engineering  
Higher Studies in Computer Science

2019-2023

2017-2019

## CAREER HISTORY

### CLOUD NATIVE INTERN [ Devops Engineer ]

Yobitel Communications

MAY 2022 to Present

- During my tenure as a Cloud Native Intern, I gained valuable hands-on experience in designing and deploying cloud-native applications on the AWS cloud infrastructure. Working alongside experienced AWS Architects and Developers, I acquired knowledge of cloud-native architecture patterns, best practices, and AWS services.
- Demonstrated proficiency in a variety of AWS services, including EC2, S3, RDS, Lambda, and API Gateway and developed cloud-native applications using serverless architecture and containerization, deploying them using AWS services such as AWS Fargate, AWS Elastic Beanstalk, and AWS ECS.
- Developed a strong foundation in DevOps practices, including continuous integration and deployment (CI/CD) using AWS CodePipeline and AWS CodeDeploy. Additionally, I gained expertise in deploying and managing containerized applications using EKS, ECS, Docker, and related technologies.
- Overall, my experience as a Cloud Native Intern has provided me with a comprehensive understanding of AWS services, cloud-native architecture patterns, and DevOps practices, positioning me well to excel in cloud-native development roles.

## RECENT PROJECTS

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### Serverless Web Application

#### April 2023 - YOBITEL CLOUD COMPUTING

- Developed a serverless web application on Amazon Web Services (AWS) using AWS Lambda, API Gateway, S3, and DynamoDB. The application enables users to create, update, and delete notes, as well as authenticate themselves using Amazon Cognito. The application also includes a search functionality that allows users to search for specific notes.
- The backend of the application was implemented using AWS Lambda and API Gateway, which enabled serverless execution and auto-scaling. AWS S3 was used to store static content such as HTML, CSS, and JavaScript files, while AWS DynamoDB was used to store and retrieve user notes.
- Amazon Cognito was used to enable user authentication and authorization, which provided a secure and scalable solution for managing user identities.
- The application was developed using the Serverless Framework, which allowed for easy deployment and management of the AWS resources. The project was completed within a tight deadline and met all business requirements.

### Email Subscription Architecture

#### FEB 2023 - YOBITEL CLOUD COMPUTING

- Developed and deployed an Email Subscription Web Application using AWS cloud infrastructure.
- Deployed the application using SNS (Simple Notification Service), API Gateway, Lambda, and DynamoDB.
- Configured SNS to receive email notifications from users subscribing to the application.
- Implemented API Gateway to receive user requests and forward them to Lambda functions for processing.
- Leveraged Lambda functions to perform backend tasks such as verifying user email addresses and adding them to DynamoDB.
- Used DynamoDB to store and manage user email subscription data.
- Scheduled periodic updates to the application using Event Bridge for enhanced reliability and maintenance rewrite.

In this Project, I successfully designed and built an Email Subscription Web Application using AWS cloud infrastructure. The application was deployed using various AWS services including SNS, API Gateway, Lambda, and DynamoDB. I configured SNS to receive email notifications from users subscribing to the application and implemented API Gateway to receive user requests and forward them to Lambda functions for processing. I leveraged Lambda functions to perform backend tasks such as verifying user email addresses and adding them to DynamoDB. Additionally, I used DynamoDB to store and manage user email subscription data. To enhance the application's reliability and maintenance, scheduled periodic updates using Event Bridge.