

NITHISHKUMAR K

ASPIRING CLOUD & DEVOPS ENGINEER

CONTACT:

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TECHNICAL SKILLS:

- **Cloud & AWS:** IAM, EC2, S3, VPC, Security Groups, ALB, Auto Scaling, RDS, EBS, EFS, DynamoDB, CloudWatch, CloudFormation, Route 53
- **DevOps & Systems:** Linux (Ubuntu), Docker, Nginx, Git, GitHub, YAML, Infrastructure as Code, CI/CD fundamentals, server troubleshooting
- **Programming & Databases:** Python fundamentals, SQL, PostgreSQL, Oracle Database
- **Networking:** TCP/IP, DNS, HTTP/HTTPS, public/private subnets, load balancing, basic cloud networking

EDUCATION:

Mahendra Engineering College, Mallasamuthram, Tamil Nadu

B.Tech in Information Technology |
CGPA: 7.75/10
2023–2027

Vaitheeshwara Higher Secondary School, Tamil Nadu

Higher Secondary Certificate (HSC) | 73%

CERTIFICATIONS:

- AWS Cloud Quest: Cloud Practitioner | AWS SimuLearn: Cloud Practitioner
- AWS Educate: Introduction to Cloud 101 | AWS Educate: Getting Started with Security
- AWS Skill Builder: Getting Started with DevOps on AWS | Oracle Database for Developers: Foundation
- NPTEL Human Computer Interaction – Elite + Gold

PROFESSIONAL SUMMARY:

Final-year B.Tech Information Technology student with hands-on experience in AWS, Linux, Docker, Nginx, Git, cloud networking, and infrastructure automation. Built deployment projects using Amazon EC2, S3, Docker, and CloudFormation, and designed a highly available three-tier AWS architecture. Seeking a Cloud Technology Internship to contribute to deployment, monitoring, automation, troubleshooting, and secure cloud operations.

PROJECTS:

Highly Available 3-Tier Web Application | AWS VPC, ALB, Auto Scaling, EC2, RDS, CloudWatch

In Progress

- Designed a multi-AZ architecture with an internet-facing Application Load Balancer, Auto Scaling EC2 application tier, and Amazon RDS in private database subnets.
- Defined ALB-to-EC2-to-RDS security-group flow, health checks, monitoring, and auto-healing to reduce exposure and single points of failure.

Dockerized Web Application Deployment | Docker, Nginx, Linux, Git

Completed

- Built and ran an Nginx-based Docker image with port mapping for a repeatable web-application deployment workflow.
- Managed containers, inspected logs, verified service availability, and troubleshooted basic runtime issues using Docker and Linux commands.

Infrastructure as Code with AWS CloudFormation | CloudFormation, YAML, EC2

Completed

- Authored a reusable YAML template to provision an EC2 instance and expose deployment information through stack outputs.
- Practiced stack creation, validation, update, and deletion to demonstrate repeatable provisioning and controlled resource cleanup.

AWS Web Hosting Projects | Amazon S3, EC2, Nginx, IAM, Security Groups

Completed

- Hosted a static website on Amazon S3 and deployed a web application on EC2 using Nginx and Linux configuration.
- Applied bucket access controls, IAM permissions, security-group rules, and deployment verification for secure public access.

CLOUD LABS & TECHNICAL PARTICIPATION:

- Configured IAM users, groups, AWS managed policies, EFS shared storage, EBS snapshot and restore, EC2 user data, and CloudWatch CPU monitoring.
- Participated in DATA QUEST 2025, a technical event hosted by PSG iTech and Applied Research.
- Participated in the National-Level Conference on Emerging AI, ML and Computing at Dhanalakshmi Srinivasan College of Engineering.
- Participated in SINTHAN'AI 26, a 24-hour hackathon at Erode Sengunthar Engineering College.

