

Nivas Marudhavanan

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SUMMARY

A proactive and highly technical Data and Cloud Engineer with a Master's degree specializing in designing and building scalable, high-performance applications on AWS. Possesses deep, hands-on expertise in developing backend services with Python and architecting serverless, event-driven solutions using AWS Lambda and API Gateway. A proven expert in building and maintaining robust CI/CD pipelines and a passionate advocate for modern, cloud-native best practices in security and reliability.

EDUCATION

The University of Texas at Arlington

Masters, Data Science (GPA: 3.67/4.0)

Jan 2024 - Dec 2025

Arlington, Texas

Velammal Engineering College

Bachelors, Computer Science Engineering (GPA: 3.24/4.0)

Jul 2016 - Sep 2020

Chennai, India

WORK EXPERIENCE

The University of Texas at Arlington | Research Volunteer

Sep 2025 - Now

- Conduct research on ABCD disease in children by applying multimodal concepts and advanced neuroimaging techniques to analyze brain structure and function.

SecureCloud Technology | Associate - Cloud

Oct 2020 - Dec 2022

- Administered and supported a complex, production cloud-based environment on AWS, ensuring high availability, security, and performance for critical data infrastructure and applications.
- Engineered a serverless AWS SFTP solution (Lambda, S3, ECS) for a healthcare company that reduced third-party vendor data ingestion delays by 40%, directly accelerating downstream analytics and cutting reporting latency from days to hours.
- Developed modular Python automation scripts for transformation and Terraform-based infra provisioning, reducing manual deployment in cloud tasks by 50%.
- Delivered a complete continuous integration and delivery (CI/CD) pipeline, using Git and AWS CodePipeline to provide development teams with the ability to execute builds, run tests, and deploy in a fully automated fashion.
- Developed and implemented monitoring solutions using AWS CloudWatch and custom Python scripts, providing deep visibility into the performance and reliability of the cloud environment.
- Collaborated with cross-functional teams and stakeholders to understand reporting requirements and deliver data solutions that solved key business problems

8K Miles Software Services Limited | Intern

Dec 2019 - Sep 2020

- Developed a REST API and backend framework using Python and SQL streamlining data handling processes and ensuring adherence to data quality and programming standards.
- Integrated the web application with AWS services to bolster scalability and performance, while diligently documenting coding procedures and data processes to support robust data engineering practices.

PROJECTS

Automated AWS SFTP Solution for Healthcare Vendors

June 2022 - Nov 2022

- Developed and deployed a serverless AWS SFTP solution using Lambda, S3, and ECS to automate secure data exchange between healthcare vendors and internal systems, improving scalability and compliance.
- Reduced third-party data ingestion delays by 40% and cut reporting latency from days to hours, accelerating downstream analytics and operational decision-making.

Automated Infrastructure & Application Deployment using Terraform, Atlantis, and GitHub Actions

Sep 2025 - Oct 2025

- Architected a fully automated infrastructure and Flask application deployment pipeline by integrating Atlantis, Terraform, and GitHub Actions on AWS EC2, with remote state managed in S3 and DynamoDB.
- Deployed a Flask ML app through CI/CD automation, enabling secure SSH-based delivery, containerized Atlantis operations, and zero-downtime updates triggered by code changes in GitHub.

Architecting a Secure, Serverless Web Application

Oct 2025 - Nov 2025

- Architected a secure, serverless backend for the Dallas Weather Dashboard using API Gateway (Cognito Authorizer) and AWS Lambda to fetch and deliver real-time weather data efficiently.
- Implemented user authentication and session management by integrating AWS Cognito with a Flask OAuth 2.0 proxy, enabling seamless login flow and protected access to weather APIs.

SKILLS

Cloud Platforms: AWS (S3, EC2, Lambda, Glue, Redshift, Athena, Kinesis, EKS, Step Function, IAM, VPC, SQS, SNS)

Observability & Tools: CloudWatch, Prometheus

Configuration Management: AWS SSM

Methodologies: Agile, Scrum, CI/CD, DevSecOps

IaC & DevOps: Docker, Terraform, AWS CloudFormation, Git, CI/CD

Data Engineering: Apache Spark, Apache Airflow, SQL, Python, Microsoft Excel, Tableau, Power BI, Plotly,

Databases: PostgreSQL, Microsoft SQL, MongoDB, DynamoDB, RDS

CERTIFICATIONS

AWS Cloud Quest: Cloud Practitioner: Amazon Web Services | **Python :** Hackerrank | **SQL - Master :** Coding Ninjas