

# Solai Rajan

## AWS Cloud Engineer

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IT professional with over 5 years of experience, including 2 years in network support and 3 years specializing in cloud technologies. Skilled in AWS, Terraform, Python and GitLab, with a strong foundation in cloud architecture, infrastructure automation and CI/CD. Passionate about optimizing cloud solutions to enhance operational efficiency and drive business agility.

### RELEVANT WORK EXPERIENCE

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#### HTC Global Services, Chennai

2022 FEB– Present

#### AWS Cloud Engineer

#### Mainframe to AWS Modernization

Client: State Farm

- Developed a high-availability API on AWS for mainframe-to-AWS modernization, integrating API Gateway, Lambda, and DynamoDB.
- Implemented multi-region disaster recovery with API Gateway, Lambda, load balancers, and DynamoDB Global Tables.
- Configured Route 53 failover with multi-region load balancers and health checks for seamless traffic redirection.
- Automated API health monitoring using EventBridge-triggered Lambda functions and CloudWatch alarms.
- Streamlined DR failover by integrating Route 53 health checks with CloudWatch alarms for high API availability.
- Created reusable Terraform modules stored in GitLab for cross-project accessibility, incorporating custom templates for AWS resources.
- Leveraged GitLab CI/CD with Scalr for Terraform state, added Terratest for infrastructure validation, and ensured compliance with Sync Scan, LabLooter, and Pytest for unit testing Lambda functions.

#### Data migration of DB2 to Dynamodb

- Executed end-to-end data migration from DB2 to DynamoDB using AWS Transfer Service, S3, Glue, and VPC Endpoint.
- Configured AWS Transfer Service with VPC Endpoint for secure, private data transfers to S3.
- Utilized AWS Glue for ETL, transforming DB2 data for DynamoDB integration.
- Ensured data security and compliance through best practices in migration.
- Optimized DynamoDB for high-performance, reliable data access.
- Deployed modular AWS resources using Terraform, with reusable modules in GitLab and Scalr for state management.
- Implemented Terratest and Pytest for Terraform and Python code validation in GitLab pipeline, along with continuous security checks using Snyk Scan and LabLooter.

## API Lambda Development Project

- Developed modular, efficient Python code for AWS Lambda functions to support API operations, ensuring streamlined execution.
- Applied robust input validation, exception handling, and naming conventions for enhanced code readability and maintainability.
- Optimized Lambda functions for performance, minimizing execution time and memory usage to improve resource utilization.
- Implemented unit tests with Pytest, improving reliability and enabling automated CI testing in the pipeline.
- Created HLD, LLD, and component specifications to document architecture, design, and components for project clarity and future development support.

## Atos cloud to AWS Migration:

Client: Philips DA

- Collaborated on migrating a .NET application and SQL Server database from Atos cloud to AWS.
- Analyzed infrastructure and defined migration requirements with the team.
- Configured AWS services, including EC2 for application hosting and RDS for SQL Server.
- Installed necessary software and dependencies, ensuring compatibility.
- Supported testing to validate functionality and performance post-migration.
- Delivered solutions tailored to stakeholder needs, addressing migration challenges

**Accenture, Chennai**

2020 MAR – 2021 OCT

Network Infrastructure Design

Client: TDC

- Utilized the INCA tool to strategically design fiber cable placements across Denmark.
- Developed accurate network maps by referencing legacy copper cable layouts, transitioning the design from copper to modern fiber infrastructure.
- Ensured optimized internet infrastructure to support advanced connectivity needs by leveraging geographic data and existing network schematics.

## EDUCATION

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**K.C.S Kasi Nadar College Of Arts & Science, Chennai, 2019** Bachelor of Science – Computer Science

## SKILLS AND CERTIFICATION

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**Technical Skills:** AWS, Azure Fundamentals, Terraform, Gitlab, Python, Pytest, CICD.

**Certification:** AWS Certified Solutions Architect – Associate, Microsoft Certified: Azure Fundamentals

**Languages:** English, Tamil.

## DECLARATION

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