SATHYA GOPINATH

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OBJECTIVE

An analytical and detail-driven Cloud Engineer seeking to design, deploy, and secure resilient AWS infrastructures that power innovation and operational excellence. Eager to leverage Terraform, Python, and automation expertise to deliver scalable, cost-efficient, and secure cloud solutions for forward-thinking organizations.

SUMMARY OF QUALIFICATIONS

- Designed and deployed cloud architectures with hub-and-spoke VPCs, NAT Gateways, Load Balancers, and VPC Endpoints.
- Developed reusable Terraform modules for foundational and connectivity layers.
- Skilled in Databricks, Snowflake, and AWS Redshift.
- Proficient in Python, Java, and SQL for backend, automation, and API integration.
- Experienced in IAM policy design, access control, and compliance enforcement.
- Skilled in GitHub (version control, CI/CD), Ansible, and Linux administration.
- Strong in documentation, cloud monitoring, and resolving complex technical issues.

WORK EXPERIENCE

Student IT Helpdesk Assistant | Jun 2023 – Present
Rutgers School of Communication and Information | New Brunswick, NJ

- Deliver remote and on-site support for hardware, software, and network troubleshooting for a diverse campus community.
- Document standard procedures and solutions to build a robust internal knowledge base and reduce repeat issues.
- Assist with system updates, security patches, and onboarding to maintain operational continuity and security compliance.
- Collaborate with IT peers to streamline service delivery and enhance overall user experience.

Cloud Engineering Intern | Nov 2024 – Jul 2025
P&F Solutions | New Brunswick, NJ

- Architected secure, scalable AWS infrastructures leveraging hub-and-spoke VPC designs for multi-environment deployments.
- Configured NAT Gateways, Route Tables, Security Groups, Load Balancers, and VPC Endpoints for secure, resilient connectivity.
- Implemen ted IAM policies, manage IP ranges and route rules, and enforce naming conventions for consistent security standards.
- Exposure to AWS Redshift integration for secure data storage and analytics workloads.
- Produced detailed technical documentation for operational transparency, knowledge sharing, and audit readiness.

PROJECT EXPERIENCE

LifeSyncHub E-Commerce Platform - Rutgers University | New Brunswick, NJ

- Integrated Best Buy & BlueCart APIs to dynamically fetch real-time product data for a scalable e-commerce backend.
- Engineered backend logic in Python and SQL for smooth database operations and seamless API calls.
- Extended design for compatibility with Snowflake and AWS Redshift to enable analytics dashboards.
- View Source on GitHub: https://github.com/Sathyaboi/LifeSynchub

MetroAnalytics | Security Analytics Project - Rutgers MBSExternship Exchange | New Brunswick, NJ | Sep 2023 – Dec 2023

- Co-led research and software development for airport behavior detection systems to strengthen anti-trafficking measures.
- Conducted predictive modeling and data visualization for security analytics dashboards.
- Evaluated AI models for behavior analysis to enhance airport security protocols.

CERTIFICATION

AWS Certified Cloud Practitioner – Amazon Web Services, 2025 | **AWS Certified Solutions Architect** – Associate (2025)

EDUCATION

M.S. in Computer Engineering (Software Engineering) - Rutgers University, Expected May 2026
B.S. in Computer Engineering - Rutgers University, May 2025

PROFESSIONAL SKILLS

Cloud & Data Platforms: AWS (EC2, S3, VPC, IAM, Lambda, Redshift) | Databricks | Snowflake
Infrastructure & Automation: Terraform | Ansible | GitHub | CI/CD | Linux
Programming & Development: Python | Java | SQL | REST APIs | AI/ML
Data Engineering: ETL Pipelines | Data Warehousing | Data Modeling | Analytics Integration
Security & Operations: IAM Policy | Compliance | Network Security | Monitoring | Troubleshooting
Soft Skills: Documentation | Teamwork | Organization | Adaptability