

# Ivan Rivera

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**CERTIFICATIONS:** AWS CLOUD PRACTITIONER (2025), COMPTIA A+ (2024), SAA (IN PROGRESS)

**CLOUD TOOLS:** TERRAFORM, LAMBDA, API GATEWAY, EC2, S3, ROUTE 53, ACM, ELB, ASG, GITHUB ACTIONS, CI/CD, SES, CLOUDWATCH

**PROJECTS DEPLOYED:** 3 FULL-STACK AWS APPS, INCLUDING A REAL-TIME CHATBOT AND A SERVERLESS CLOUD RESUME CHALLENGE SITE

## Jr. Cloud & DevOps Engineer

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GitHub: [github.com/ivan-rivera-projects](https://github.com/ivan-rivera-projects)

Portfolio: [iam-ivan.com](https://iam-ivan.com)

## PROFILE

AWS Cloud Practitioner (Solutions Architect Associate in progress) with over a decade of IT experience spanning systems administration, database management, and infrastructure support. Transitioning to cloud technologies with hands-on expertise in AWS serverless architectures and Infrastructure as Code. Combines deep on-premises knowledge with emerging cloud skills to design scalable, resilient, and cost-effective solutions. Seeking an entry-level AWS/DevOps position to leverage comprehensive IT background while expanding cloud expertise in a professional environment.

## PROJECTS

**ENHANCED AWS Cloud Resume Challenge** | [View Live](#) | [GitHub Repository](#)

Full-Stack AWS Serverless Web Application

- Architected and deployed a serverless resume website using AWS services including S3, CloudFront, Lambda, API Gateway, and DynamoDB
- Implemented a visitor counter using JavaScript on the frontend and AWS Lambda with Python on the backend
- Created RESTful API endpoints using API Gateway that interact with DynamoDB for data persistence
- Set up HTTPS security with SSL/TLS certificates via AWS Certificate Manager
- Established a CI/CD pipeline with GitHub Actions for automated deployments
- Utilized Infrastructure as Code (Terraform) to provision and manage AWS resources programmatically
- Configured custom DNS with Route 53 for a professional domain name
- Implemented CloudFront for content delivery optimization and improved global load times

- Enhanced functionality with additional backend features including a contact form and data capture tables.
- Integrated SES for real-time email notifications.

#### **Wagwan London Custom Chatbot** | [View Live](#) | [GitHub Repository](#)

##### AWS Serverless Customized Chatbot Application

- Developed a serverless chatbot application deployed on AWS that provides information about events in London
- Integrated multiple AWS services including Lambda, API Gateway, and DynamoDB to create a scalable architecture
- Implemented natural language processing capabilities to interpret user queries about local events
- Constructed RESTful API endpoints allowing the chatbot to retrieve real-time data
- Designed a schema for storing and efficiently querying event information in DynamoDB
- Created automated deployment workflows using GitHub Actions for continuous integration

#### **BinarySoftware AWS Infrastructure with Terraform** | [View Live](#) | [GitHub Repository](#)

##### Infrastructure as Code (IaC) Implementation

- Designed and implemented AWS infrastructure as code using Terraform to support a web application
- Provisioned and configured multiple AWS services including VPC, EC2, S3, RDS, IAM, and security groups
- Architected a secure network topology with public and private subnets, ensuring proper isolation of resources
- Created reusable Terraform modules to standardize infrastructure components and increase maintainability
- Established state management best practices using remote state with S3 and state locking with DynamoDB
- Implemented CI/CD pipeline integration for automated infrastructure testing and deployment
- Developed comprehensive documentation detailing the infrastructure design and deployment processes

## **EXPERIENCE**

**CLOUD & E-COMMERCE PLATFORM ADMINISTRATOR | LGGS LLC, KISSIMMEE, FL -  
MARCH 2014-NOV 2024**

- Website Design, CMS and E-Commerce Management: Designed, maintained and optimized a WooCommerce LAMP stack, integrating and unifying online marketing , social media and email marketing.
- Led transition from LAMP stack to cloud infrastructure for e-commerce platform (WooCommerce).
- Built and maintained secure, scalable hosting with SSL and DNS management (Route 53).
- Administered Linux servers, integrated marketing automation, and developed CMS extensions.
- Team Leadership: Collaborated cross-functionally to align IT strategies with business objectives.

**DATABASE CONSULTANT - FLORIDA DEPARTMENT OF HEALTH, TALLAHASSEE, FL —  
AUGUST 2002-JAN 2014**

- Database Management: Administered Oracle and Cache databases, supporting mission critical in-house applications, performance tuning, database support to on-premise dev, test and prod environments, provided documentation, curriculum, training and support to 67 statewide system administrators, handled all backups and disaster recovery implementations, optimizing query and database performance.
- Networking Protocols: Implemented and managed DNS, DHCP, and VPN configurations across distributed systems.
- Distributed Systems and Virtualization: Supported migration projects involving the consolidation of 67 independent sites to regional data centers and virtualized database environments.
- Training & Documentation: Developed system administrator training materials for 67 counties, ensuring consistent support practices statewide.
- Client-Side Support: Delivered comprehensive support for hardware and software systems, reducing downtime and improving user productivity.
- System Upgrades: Conducted system-wide updates and database upgrades to improve reliability and scalability.
- Technical Support: Provided end-user support for database-driven applications, enhancing operational efficiency.

**JUNIOR DATABASE ADMINISTRATOR, FLORIDA STATE UNIVERSITY - CENTER FOR PROFESSIONAL DEVELOPMENT, TALLAHASSEE, FL — MAY 2001-JULY 200**

- **Server Management:** Sun Microsystems Solaris servers for FSU's Center for Professional Development, ensuring high availability and performance for database applications. Windows Server Platform + Windows Client
- **Database Administration:** Administered Oracle databases, overseeing maintenance, backup, and data integrity to support the Center's operations.
- **SQL Scripting & Reporting:** Created SQL scripts and generated management reports to support decision-making processes within the Center.
- **Performance Tuning and Upgrades:** Conducted performance tuning and coordinated database upgrades to enhance system efficiency and functionality.
- **Instructor:** Taught the Oracle Certified Professional Curriculum for Oracle 8 and 8i database administration courses.

**SKILLS**

**Cloud Platforms:** Amazon Web Services (AWS)

**AWS Services:** S3, CloudFront, Lambda, API Gateway, DynamoDB, Route 53, IAM, CloudWatch, CloudFormation, VPC, EC2

**Infrastructure as Code:** Terraform, AWS CDK

**DevOps:** CI/CD, GitHub Actions

**Operating Systems:** Linux, Unix, Windows Server

**Programming Languages:** JavaScript, Python, SQL, PowerShell, Bash

**Version Control:** Git, GitHub

**Web Technologies:** HTML, CSS, JavaScript

**Databases:** Oracle, SQL Server, MySQL, PostgreSQL, InterSystems Caché, DynamoDB, NoSQL

**Database Administration:** Performance tuning, disaster recovery, replication, clustering, high availability

**Monitoring:** CloudWatch, enterprise monitoring tools

**Security:** Access control, encryption, security best practices

**Others:** RESTful APIs, Serverless Architecture, System Architecture Design, Troubleshooting, Documentation, Technical Training, Data Center Operations

**EDUCATION**

FLORIDA A&M UNIVERSITY — BA 2014-2000

**RELEVANT COURSEWORK OR TRAINING**

**AWS Cloud Institute – Amazon Web Services (In Progress)**

Enrolled in AWS's official cloud career training program focused on full-stack cloud development. Curriculum includes:

- 9 instructor led courses with 150+ hands-on AWS labs and 2 real-world capstone projects
- Certification prep for AWS Solutions Architect and Developer – Associate
- Building a portfolio of production-grade, cloud-native applications

## LANGUAGES

English (fluent), Spanish (fluent)

## CERTIFICATIONS

### **CompTIA A+**

Issued Nov 2024 · Expires Nov 2027 Credential ID COMP001022629571

### **AWS Certified Cloud Practitioner**

Issued Jan 2025 · Expires Jan 2028 Credential ID be864e2827ef4a0a8fa8bcea242725cb

### **AWS Solutions Architect Associate (SAA-003)**

In Progress projected to complete by May 2025