

JAVIER DIAZ

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## CAREER SUMMARY

### Cloud Solutions Architect • Cloud Administrator • DevOps Engineer

- **I am a seasoned Systems Administrator with over 13 years of expertise in the Information Technology field, specializing and certified as an AWS Solutions Architect.** Adept at leveraging expertise in AWS Services, Linux, Docker Swarm, Kubernetes, Terraform, Python, and other cutting-edge DevOps tools to optimize costs, efficiency, scalability, availability, and security in cloud environments.
- **As a key member of a small, dynamic team,** I independently spearheaded the complete implementation and later management of three main cloud environments for UH NSM College: AWS, Azure, and GCP.
- **With 7 years of hands-on experience in cloud computing environments,** I have built a proven track record of successful projects of diverse services and implementations across AWS, Azure, and GCP.
- **Proficient in migrating on-premises servers to various cloud environments.** Complete end-to-end execution from designing, planning, testing, and migration. To implement them as fully scalable, highly available, secured, microservices applications tailored in monitored environments.

## AREAS OF EXPERTISE

- |           |                   |                   |                |           |
|-----------|-------------------|-------------------|----------------|-----------|
| • AWS     | • DevOps          | • Kubernetes      | • Bash         | • Ansible |
| • Azure   | • Linux Servers   | • Terraform (IaC) | • MySQL        | • CI/CD   |
| • GCP     | • Windows Servers | • AWS CLI         | • IT Security  | • Agile   |
| • vSphere | • Docker Swarm    | • Python          | • Git / GitHub | • APIs    |

## PROFESSIONAL EXPERIENCE

**University of Houston, Dean NSM College,** Houston, TX

**2017 – Present**

The NSM College, integral to the University of Houston, comprises six departments: Computer Science, Math, Physics, Biology, Chemistry, and Earths and Atmospherics, all overseen by the Dean's Office.

### Systems Administrator

As part of the Dean's IT Team, I was brought to lead the On-Premises, vSphere, and Cloud environments. My role has been instrumental in shaping the cloud technological landscape for the college; also, working with staff, faculty, and students to implement Projects/Applications for Research, Classes, and Business Processes.

- **Design and implement a multi-cloud environment for the NSM college,** on AWS, Azure, and GCP. Oversee AWS Accounts, Billing, Budgets, Service Control Policies, IAM policies, User Access, and Roles. Employ secure and cost-efficient solutions to lower expending and improve efficiency on the cloud, leveraging advanced AWS Services such as Control Tower, Security HUB, GuardDuty, IAM, SNS, and CloudWatch.
- **Appointed Information Security Officer (ISO) for NSM College, tasked with strengthening its security posture.** This encompassed Network and Server Hardening (2FA, KMS, VPC, Security Groups, ACLs, CloudTrail) and Firewall Management (SonicWall, UFW, IP Tables) for the On-Premises and Cloud environments. Also, administering security measures across all the six NSM departments.
- **Lead the migration of on-premises applications on Ubuntu, RedHat, and Windows to the Cloud.** Design

and implement efficient, scalable, and highly available microservices (EC2, RDS, DynamoDB, S3, CloudFront, Lambda). Employ IaC (Terraform, Cloud Formation, Git), Docker Swarm, and Kubernetes, in conjunction with Linux AMIs (EC2) to deploy Images and Servers. Also, manage the NSM Domains with Route53, and AWS ACM.

- **Oversee 25+ Test/Production servers** (using Ansible, AWS Config, AWS CLI, and AWS Backup). Deploy, manage, monitor, and support these across the different Cloud Environments (uptime of 99.95%), automating Linux (Ubuntu, RedHat, CentOS) processes with Python and Bash scripts (using GitHub Repositories).

**University of Houston, Biology NSM College**, Houston, TX

**2015 – 2017**

### **Systems Analyst**

I assumed this role based on my substantial expertise on Windows servers, experience managing Network Closets, Routers, and Switches (CompTIA Network+ Certified), as well as great customer service.

- **Robust Systems Administration Skills.** Successfully managed and administered Windows Servers (2012 R2), Linux Servers, and RAID Storages on DELL PowerEdge, encompassing critical functions such as Active Directory, Group Policy, DNS, DHCP, File Servers, and Local SonicWall Firewalls.
- **Efficient Backup and Recovery Implementation.** Implemented daily backup and recovery procedures for Windows and Linux (Ubuntu, RedHat, CentOS) servers and workstations, utilizing TIVOLI TSM, ensuring data integrity and system resilience in the face of potential disruptions.

**University of Houston, Sugar Land Campus**, Sugar Land, TX

**2013 – 2015**

### **Network Systems Analyst**

I was brought to this position to assist with the overall Network and Windows Server infrastructure for the UH Sugar Land Campus. Provide support to faculty and staff Servers and Workstations.

- **Network Administration Excellence.** Successfully administered and troubleshooted the UH Sugar Land LAN Network, overseeing seven network closets. Demonstrating adeptness in maintaining a robust and efficient network infrastructure.
- **Windows Server Expertise and Efficient Backup Management.** Managed Windows Servers 2008 R2, including critical roles such as DNS, Active Directory, Print, and SFTP on Hyper-V. Implemented daily backup and recovery procedures using TIVOLI TSM and Windows Native Backup, ensuring data integrity and system reliability. Develop systems documentation about operational procedures for the IT group.

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## **EDUCATION**

### **Master of Business Administration, MBA**

University of Houston Victoria, Victoria, TX

### **Bachelor of Engineering, Electronic Engineering**

Universidad Distrital Francisco José de Caldas, Bogota, Colombia

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## **CERTIFICATIONS**

- AWS Solutions Architect Associate
- CompTIA Network+ Certification
- ITIL Foundations Certification