

Simón Ali Bustamante Blanco

System Engineer – Data Engineering Specialist

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I am a Systems Engineer specializing in Data Engineering, with a broad technical and business background. My expertise includes leveraging my skills to support presentations with my clients, where I'm able to show solutions and/or diving deep into technical or business requirements. As a problem-solver, I have a meticulous approach that involves understanding every component of the problem, effectively organizing each piece in its proper place, presenting multiple solutions, and conducting thorough evaluations and comparisons of each scenario to identify the optimal choice.

As a Data Engineer, I possess extensive expertise in a wide range of technologies crucial to the field. My proficiency includes AWS, Linux, Python, Java, Web Development, Symfony, NodeJs, and JavaScript, all of which are relevant to Data Engineering. Furthermore, I have advanced skills in application analysis and a deep understanding of various Big Data tools such as Hadoop, Pyspark, Pig, and Hive.



Experience

2022-12 - Today

Data Engineer

Millicom, Panama

GENERAL: implement the governance of data management and the strategic use of information in the organization, designing and implementing data infrastructures in AWS with the collaboration of interdisciplinary teams to enable the data to all managements interested in the organization

ACTIVITIES

- Design and maintain data pipelines
- Implement and manage databases and storage systems
- Coordinate agile development teams
- Collaborate with cross-functional teams
- Develop and maintain the data architecture

WORK IN PROGRESS:

- Migrate Microsoft SQL Server pipeline in the Colombia Region, from an On-Premise environment to AWS Glue, using PySpark as an ETL engine in batch mode.
 - Target: Minimize data processing time and cost reduction of the solution
- Migrate telephone equipment management system from an On-Premises environment to an AWS environment, taking advantage of the architecture defined for the data lake house of the regions. This will finally allow the information to be made available for consumption in Business Intelligence reports.
 - Target: Minimize costs using the economy of scale of the cloud
- Facilitate access to information from the Data Warehouse (DWH) of Panama in the lake house environment of Panama, establishing suitable environments for development, testing and production.
 - Target: Enable the information to the interested parties of the organization in less time

2013-03 - 2022-11

Sr. Product and Software Engineer

Smartmatic, Panama

GENERAL: Provide support to countries around the world and guarantee citizen identity through the development of electoral and identity management solutions that implement high-performance software and equipment.

ACTIVITIES

- Develop high-performance software prototypes aligned to the electoral and identity management needs of nations.
- Provide support and participate in both face-to-face and online demonstrations of the company's electoral and non-electoral solutions, with the goal of promoting their adoption and meeting the needs of clients in various regions such as the United States, Latin America, Europe and Asia.
- Work collaboratively with development teams to streamline and optimize integration between identity and electoral products, with the goal of offering new alternatives and approaches to voter verification.
- Development of automated and efficient workflows in accordance with the architecture of electoral solutions:
 - AWS Step Functions to orchestrate and coordinate different steps and tasks within the workflow visually and automatically
- Implementation of centralized data management systems as part of the deployed solutions:
 - Amazon RDS to provide a centralized relational database that consolidates and manages the configuration and parameters of automated counting machines for your production.

- AWS Glue as an ETL tool to facilitate the extraction, transformation and loading of data from different sources to a centralized data warehouse such as s3 on AWS or an On-Premises destination
- Implementation of monitoring systems in real time:
 - Amazon CloudWatch as a content generator for alarms, incidents, and real-time monitoring to monitor the software production status of automated counting machines. In conjunction with Kafka / Kinesis, enabling topics in a distributed way to facilitate monitoring.
- Implementation of security measures and data encryption
 - AWS Key Management Service (KMS) to manage and control the encryption of production data and the encryption keys used to protect the confidentiality of the distributed configuration.
- Configuration and testing of hardware and peripheral devices
 - Extensive configuration and testing of all hardware and peripheral devices involved in the voter validation process. This included the correct integration of biometric devices, card readers, among others, both in the on-premise environment and in the AWS infrastructure.
- Configuration and testing of an Identity Management System
 - An identity management system that allowed voter authentication and validation was implemented and tested. This system, based on AWS and on-premise configurations, guaranteed data integrity and accurate voter identification during the electoral process.
- Training of biometric device operators
 - Training of operators in charge of using the biometric authentication devices and electoral machines to ensure the proper use of the devices and validation of voters in an efficient and accurate manner.

2011-03 - 2013-03

Product Specialist

Smartmatic, Venezuela

GENERAL: Collaborate closely with development and architecture teams to design efficient solutions, conduct product demos, provide technical support, assess technology requirements, and ensure customer satisfaction in the use of election solutions.

ACTIVITIES:

- Develop high-performance software prototypes aligned to electoral needs. Provide support and participate in demonstrations to promote technology adoption and meet customer needs in various regions such as the United States, Latin America, Europe, and Asia.
- Biometric authentication of the voter. Functional tests in automatic activation of voting with the use of the fingerprint. Transmission of data to on-premise servers

2009-08 - 2011-02

Software Developer

Onuva Integración de Sistemas, Caracas

GENERAL: Develop high-quality web applications and systems that meet customer requirements and provide optimal user experience. This implies designing, implementing and maintaining efficient, secure and scalable web solutions, using appropriate technologies and tools.

ACTIVITIES:

- At least 5 websites with powerful content management systems built to serve as a customer interface.
- Participation in demonstrations to promote the integration of free software in your server and solutions



Education

2004-01 to 2008-10	Systems Engineer / Bachelor's Degree	UNEFA, Caracas
2020-01 - Current	Big Data and Business Intelligence, Master	Universidad Isabel I, España
2022-03 - Current	MBA	Universidad Interamericana de Panamá



Soft Skills

- Scrum
- Product Support Team
- Team Building
- Leadership



Hard Skills

- Python ★★★★★
- Java ★★★★★
- AWS Glue ★★★★★
- AWS EMR ★★★★★
- Docker ★★★★★
- Hadoop ★★★★★
- Hive ★★★★★
- Spark ★★★★★
- AWS EC2 ★★★★★
- Linux ★★★★★
- Windows ★★★★★
- Django ★★★★★
- Symfony 3, 4, 5, 6 ★★★★★★
- AWS Essentials ★★★★★★
- SQL Server ★★★★★
- Oracle ★★★★★



Idiomas

- English ★★★★★
- Spanish ★★★★★



Cursos

- 2015-05 **ISTQB Foundation**
- 2017-07 **AWS Essentials**
- 2019-08 **LFS101x from Linux Foundation**
- 2020-12 **The Ultimate Hands On Hadoop: Taming your Big Data**
- 2020-10 **Symfony 3**
- 2020-11 **Practical Apache Beam**
- 2021-08 **Negotiation Skills**
- 2021-11 **Symfony 4 & 5 Development Guide**
- 2021-12 **Introduction to Cyber Security Tools & Cyber Attacks**
- 2023-02 **AWS Partner: Accreditation (Technical)**
- 2023-02 **Learn AWS Glue**
- 2022-09 **Taming Big Data with Apache Spark and Python - Hands On!**
- 2022-08 **Cybersecurity Breach Case Studies**

- 2022-08 **IBM Cybersecurity Analyst Professional Certificate**
- 2022-05 **Cyber Threat Intelligence**
- 2022-03 **IT Fundamentals for Cybersecurity Specialization**
- 2022-03 **Network Security & Database Vulnerabilities**
- 2022-03 **Penetration Testing, Incident Response and Forensics**
- 2022-02 **Cybersecurity Compliance Framework & System Administration**
- 2022-02 **Cybersecurity Roles, Processes & Operating System Security**
- 2021-12 **Introduction to Cybersecurity Tools & Cyber Attacks**