Jorge Alejandro Aguirre Gutierrez

Systems Engineer
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Software Engineer| AWS X4 | AWS Solutions Architect | AWS Developer | Java Developer | NodeJS Developer | Database Administrator | CI/CD Developer | Infrastructure as code Developer | Devops AWS

Programming Languages:
- Java 8+ (6 years)
- NodeJS (3 years)
- Python (3 years)
- C# (3 years)
- JavaScript (5 years)
- TypeScript (3 years)

Frameworks and Libraries
- Spring Boot (5 years)
- NestJs (3 years)
- FastAPI (1 year)
- .NET (3 years)
- Angular (3 years)

Testing:
- Junit (5 years)
- Mockito (5 years)
- Jest (3 years)
- JMeter (4 years)
- SoapUI (2 years)
- Serenity (2 years)

Cloud and Devops:
- AWS (4 years)
- CI/CD (4 years)
- CloudFormation (2 years)

Containers:
- Docker (3 years)
- Kubernetes (3 years)

Monitoring:
- Grafana, Prometheus and Loki (2 years)
- Dynatrace (1 year)

Personal Information
ID: C.C: 1.053.847.607 from Manizales, Caldas
Date of Birth: Salamina, Caldas - December 20, 1995
Marital Status: Single

Education
Systems and Computer Engineering, Caldas University, 2017.
Technical Degree in Administrative Assistance, SENA Regional Caldas, 2012.
Technical High School Diploma in Commerce, Institución Educativa Sara Ospina Grisales, 2012.

Certifications
AWS Certified Cloud Practitioner – July 2, 2022.
Link: https://www.credly.com/badges/1da1cfb0-fa46-4379-ba1d-d20385cc3c18/public_url

AWS Certified Solutions Architect – Associate – November 26, 2022.
Link: https://www.credly.com/badges/7a8567df-1b30-4e00-b57a-3453a19959f6/public_url

AWS Certified Developer – Associate – October 31, 2024.
Link: https://www.credly.com/badges/623f1a48-4569-4612-b0b9-4e4c58166ece/public_url

AWS Certified AI Practitioner. November 25, 2024.
Link: https://www.credly.com/badges/8bbe2a2b-8792-4eb3-93b7-f055197a2c4a/public_url

Other AWS Certifications. 2023 to 2025.
Link: https://www.credly.com/users/jorge-alejandro-aguirre-gutierrez

EXPERIENCE

Software Engineer - Bancolombia, June 2021 - Present:

- Active participation in Agile Scrum methodology throughout 7 years of experience in the technology field.

- **Docker Containerization of the BLZ application.**
  - o Java 11, using Open Liberty application server, open-source licensing, unit testing with JUnit and Mockito.

- **BLZ Project Infrastructure**
  - o Infrastructure as Code (IaC) using AWS CloudFormation for deployment on Amazon EKS via Outposts in Medellín and Bogotá.

- **RSA TOKEN Project.**
  - o Java 11 with unit testing in JUnit, acceptance testing using Serenity, and performance testing with JMeter. Microservice containerized in EKS on private AWS Outposts cloud, monitored with Vision, Grafana, Prometheus, and Loki.

- **AWS OUTPOSTS Architecture**
  - o Architectural guidelines and Infrastructure as Code for private AWS Outposts cloud, including EKS cluster setup for containerized workloads using Docker.

- **HDC Project (Foreign Exchange Declarations)**
  - o IaC development for automated cloud infrastructure, microservices deployment, unit testing with JUnit, performance testing using JMeter on Dockerized environments in EKS. PostgreSQL database with Liquibase for SQL migrations, supported by monitoring with Grafana, Prometheus, and Loki.

- **Cross-functional consulting on improvements to existing solutions**, including development of microservices with Spring Boot and Docker, and cloud architecture on AWS.

- **Use of Open Source software and AWS services** to drive corporate-level tech migrations for financial efficiency.

- **Equivalence Parameterization Project.**

- Migration of systems using AWS SCT and DMS for databases, along with CloudFront, S3, Auto Scaling Groups, EKS, and Python-based AWS Lambda functions for backend logic.

- **Open Source Metrics Project.**
  - Java 11 with Spring Boot using reactive programming and WebFlux to develop office metrics microservices deployed on Amazon EKS. Unit testing with JUnit, acceptance testing with Serenity Cucumber, performance testing with JMeter, database with Amazon RDS PostgreSQL, schema changes managed via Liquibase. Test execution automated through CI/CD pipelines and monitored using Vision, Grafana, Prometheus, and Loki.

- **Interactive Viewer Project.**
  - Containerized with Docker and Kubernetes. Java 11 application using Spring Boot with unit tests in JUnit.

- **BB7 Project.**
  - Monolith decomposition using service-oriented architecture, refactoring with Java 11, leveraging AWS Lambda functions developed in Python.

- **Contributions to open-source projects** such as **JupyterHub** and **JupyterLab**, including issue resolution in Python.

Cloud Developer - Sophos Solutions, September 2020 – June 2021.

Consultant for customer: Banco de Bogotá.

- **Credit Cards - Banco de Bogotá.**
  - Developed microservices for retrieving credit card information using Java 11 and Spring Boot, implemented unit tests with JUnit, acceptance tests with Serenity, and performance tests using JMeter, PostgreSQL database managed with db-migrate, deployment in containerized environments using Docker on EKS, monitoring with Grafana, Prometheus, Loki, and Jaeger.

- **International Remittances:**
  - Developed microservices using Java 8 with Spring Boot for Banco de Bogotá's remittance services, Unit testing with JUnit, performance testing with JMeter, monitoring with Grafana, Prometheus, Loki, and Jaeger, used AWS Lambda functions written in Python to execute custom cron jobs for remittance processing.

- **Devops for international Remittances.**

- o Created build pipelines for Java applications, designed and configured release pipelines for development, QA, and production environments, automated microservices deployment on Amazon EKS.

Full Stack Developer - Tata Consultancy Services, August 2019 – August 2020

Consultant TCS for Project Tuya and Exito.

- **Email Validation Project – Tuya Credit Cards.**
  - o Developed RESTful APIs using Java 8 and Spring Boot, unit testing with JUnit, acceptance testing, and end-to-end (E2E) testing, Built and configured CI/CD pipelines for development, QA, and production environments, Frontend built with Angular v8, PostgreSQL database managed using Datical.

- **Experian Data Credit Project.**
  - o Backend development in .NET with SQL Server database, Unit testing using NUnit.

- **Architecture Design Responsibilities**, provisioning and configuration of **API Management components** on Microsoft Azure Cloud, setup of services including Key Vault, Application Insights, App Service Environment, Azure Kubernetes Service (AKS), and Application Gateways for hybrid On-Premise connectivity, architecture planning for **App Services and API Management** to support development of APIs and microservices in .NET, Database provisioning and setup including **SQL Server** and **Cosmos DB (NoSQL)**

- **Tuya Loans Project.**
  - o Developed backend services in Java, with unit tests in JUnit and performance testing using JMeter, used MySQL and Cosmos DB for data storage, with Datical for database migrations, frontend developed in Angular v7 and deployed on Azure App Services.

API Developer. VCSOFT S.A.S. July 2018 – August 2019.

Consultant for Bancolombia

- **Mortgage Loan Project.**
  - o Developed AWS Lambda functions using Node.js, Java 8, and Python, used AWS SDK for various service integrations.

- **Proyecto ACH Minka.**
  - o Developed microservices with Node.js and Express for containerized deployment, consumed external microservices from Google Cloud and IBM DataPower, used AWS SDK and AWS Secrets Manager for secure service access.

- **Preapproved Credit Card Project.**
  - o Implemented unit testing with JUnit and performance testing using Apache JMeter.

- **Devops Support.**
  - o Assisted in defining guidelines for build and deployment pipelines using Azure DevOps, Supported microservices deployment on Kubernetes across development, QA, and production environments.

- **Apiconnect Project.**
  - o Analyzed functional specifications, designed Swagger documentation, and developed APIs on the APICONNECT platform, Developed API products including Accounts, Cards, Channels, Consignments, Customers, Security, Mortgage, Deposits, and Products.

Technical Consultant Global Solutions Group S.A.S, July 2017 – July 2018.

- **PuntoNet Ecuador Project.**
  - o Implementation of Oracle Finacle SaaS platform, Application development using Java with unit testing in JUnit and end-to-end (E2E) testing with SoapU.

- **VivaAir Project.**
  - o Implementation of Oracle APEX, setup of magnetic media and MultiCash for integration with Oracle Cloud, SOAP Web Services consumption through Java-based applications

- **Avianca Project.**
  - o Development of RTF templates using XML files generated for electronic payment transfers, Used XSLT functions for formatting and transformation.