Jorge Alejandro Aguirre Gutiérrez

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Systems Engineer

in https://www.linkedin.com/in/jorge-alejandro-aguirre-gutierrez-1836a0187/

Software Engineer | AWS X4 | AWS Solutions Architect | AI certified | Reactive programmer | Java Developer | Python Developer | .NET Developer | Database Administrator | CI/CD Developer | Infrastructure as code developer| Devops AWS

Certifications

AWS CLOUD PRACTITIONER
AWS SOLUTIONS ARCHITECT
AWS DEVELOPER ASSOCIATE
AWS AI PRACTITIONER EARLY ADOPTER
URL:
https://www.credly.com/users/jorge-alejandro-aguirre-gutierrez

Education

Systems and Computer Engineeer
Caldas University, 2018

Technician in administrative Assistance
SENA, 2012

Technical Commercial High School
Sara Ospina Grisales Institution, 2012

English level Intermediate

Personal Data

Identification
C.C: 1.053.847.607 Manizales, Caldas

Date of Birth
Salamina Caldas, December 20, 1995

Marital Status   **Nacionality**
Single   Colombian

Experience

Software Engineer at Bancolombia
June 2021 – Present
Remote

Cloud Developer at Sophos Solutions
September 2020 – June 2021
Vendor for Banco de Bogotá client, Remote

Full-Stack Developer at Éxito
August 2019 – August 2020
Vendor for TCS in Tuya Project
Immediate Supervisor: Andrés Felipe Zuluaga, Technical Lead, Medellín
Contact: +57 300 2208805

API Developer – Vendor for Bancolombia
VCSOFT S.A.S.
July 2018 – August 2019
Immediate Supervisor: Luis Gabriel Correa, Bancolombia Integration Section Lead, Medellín
Contact: +57 313 7480315

Technical Consultant at Global Solutions Group S.A.S
July 2017 – July 2018
Immediate Supervisor: José Fernando Zarate Mahecha, Software Development Factory Manager, Medellín, Antioquia

- **Docker containerization** of the BLZ application with the Open Liberty application server, open-source license. *(Bancolombia 2025)*
- **Infrastructure as Code (IaC) development** for the deployment of BLZ in EKS at Outpost Medellín and Bogotá. *(Bancolombia 2025)*
- **Migration of a legacy application to a microservice**, containerized in EKS in a private local AWS Outposts cloud. *(Bancolombia 2024)*
- **Implementation of Infrastructure as Code** for the private local AWS Outposts cloud. *(Bancolombia 2024)*
- **Development of automated cloud infrastructure**, deployment of containerized microservices to EKS. *(Bancolombia 2024)*
- **Consulting on improvements for existing solutions** related to cloud development and architecture in AWS. *(Bancolombia 2024)*
- **Use of Open Source software and AWS services** for corporate-level technology replacement to improve financial efficiency. *(Bancolombia 2023)*
- **Migration of projects using AWS SCT and AWS DMS** for databases, CloudFront, S3, Auto Scaling Groups, EKS, and Lambda for the application layer. *(Bancolombia 2023)*
- **Java development using reactive programming and WebFlux** for open-source office metrics, deployed as a microservice on Amazon EKS. *(Bancolombia 2022)*
- **Infrastructure as Code deployments** for application load balancers, Auto Scaling Groups, and Amazon RDS Postgres for the Interest Rate Manager project. *(Bancolombia 2022)*
- **Containerization with Kubernetes** for the deployment of the Interactive Viewer project. *(Bancolombia 2022)*
- **Decoupling monoliths through an event-driven architecture** using AWS Lambdas developed in Python. *(Bancolombia 2022)*
- **Contribution to open-source projects such as JupyterHub and JupyterLab**, solving issues in Python. *(Bancolombia 2022)*
- **Development of Microservices in Java Spring Boot** for the Remittances project at Banco de Bogotá. *(Sophos 2021)*
- **Use of AWS Lambdas in Java** for executing cron jobs in the Remittances project at Banco de Bogotá. *(2020)*
- **Architecture definitions and cloud configurations** for migrating the XM monolith to microservices in .NET Core and .NET Standard. *(Ingeneo 2020)*
- **Migration of the XM monolithic project to microservices and APIs** in .NET Core with an Oracle database. *(Ingeneo 2020)*
- **Development of APIs for email validation in .NET Core and .NET Standard (C#)**. Frontend developed in Angular v8 for the Credit Card Request project. *(Tuya 2020)*
- **Backend development for Experian Data Credit product** in .NET Framework (C#). *(Tuya 2020)*
- **Architecture definitions for provisioning API Management components in Azure Cloud**, including configurations for Key Vault, Application Insights, App Service Environment, AKS containers, and Application Gateways for On-Premise connectivity. *(Tata Consultancy Services / Tuya 2019)*

- **Architecture definitions for provisioning App Services in the cloud and API Management** for API and Microservices development in .NET Core and .NET Standard, deployed through Azure DevOps. *(Tata Consultancy Services / Tuya 2019)*
- **Architecture definitions for provisioning and configuring SQL Server and Cosmos DB NoSQL databases**. *(Tata Consultancy Services / Tuya 2019)*
- **Design of Swaggers and API development in Azure API Management**. *(Tata Consultancy Services / Tuya 2019)*
- **Development of Java-based services** with MySQL and Cosmos DB NoSQL databases. Frontend developed in Angular v7, hosted in Azure App Services. *(Tata Consultancy Services / Tuya 2019)*
- **Freelance development for UniFacil Perú, Grupo Elite Norte**. Frontend in Angular and Backend in Java + MySQL, using Angular v7. *(2019)*
- **Freelance development for UniFacil Perú, BSSOFTERP**. Frontend in Angular, Backend development in Java. *(2019)*
- **Module development for an accounting management system in Ecuador (Freelance)**. Developed in PHP with Laravel, modifications to controllers, model construction, migrations, and seeders. MySQL database management. Frontend in JavaScript. *(2019)*
- **Backend development in Laravel PHP for WorldPetsPeru**, including database restructuring, migration, seeders, models, controllers, Storage, FileSystems, and Mail configuration, along with unit testing

in PHPUnit. Pre-production and production environment setup for Laravel hosting deployment. *(2019)*
- **Experience working under the Agile SCRUM methodology**. *(Bancolombia 2019)*
- **Knowledge in configuring Amazon Elastic Compute Cloud (EC2) instances in AWS**, including Linux instances with AMIs, volume configurations, snapshots, security groups, and elastic IPs. *(2019)*
- **Knowledge in configuring AWS RDS instances** (MariaDB, MySQL, Oracle, PostgreSQL, Amazon Aurora), including backup scheduling, parameter groups, subnet groups, and security settings. *(2019)*
- **Creation of AWS Lambda functions in Node.js, Java 8, and Python**, using the AWS SDK. *(Bancolombia 2019)*
- **Development of microservices in Node.js and AWS** for the Web Service Distrito project with ACH provider (Minka). Integration of Google Cloud and IBM DataPower microservices. AWS SDK, AWS Secrets Manager, and Express usage. *(Bancolombia 2019)*
- **Unit and load testing of Java microservices using Apache JMeter**. *(Bancolombia 2019)*
- **Build and Pipeline configuration in Azure DevOps for Kubernetes microservice deployments** across development, certification, and production environments. *(Bancolombia 2019)*
- **Functional specification analysis, Swagger design, API development, and implementation in the APICONNECT platform** for Bancolombia. API products: Accounts, Cards, Channels, Consignments, Customers, Security,

Mortgage, Deposits, and Products. *(Bancolombia 2018-2019)*

- **Development of microservices and APIs in Java Spring Boot**. *(Bancolombia 2019)*
- **Administration of the APICONNECT development portal**. *(Bancolombia 2019)*
- **Development of unit testing artifacts for API products using Apache JMeter**. *(Bancolombia 2019)*
- **Development of load testing artifacts for API products using Apache JMeter**. *(Bancolombia 2019)*
- **Development of acceptance test artifacts for API products**, using Java – Gradle – Serenity – Cucumber. *(Bancolombia 2019)*
- **Development of Java APIs with PostgreSQL databases, deployed on AWS EKS**. *(Bancolombia 2019)*
- **Development of integration services in IBM Integration Toolkit** (ESQL, Java), Message Queue (MQ) management, and message set creation for flat-frame transformations in the Multichannel Transfers project. *(Bancolombia 2019)*
- **Development of services in IBM DataPower** using JavaScript, XSLT, and XPath for message transformation. SOA support for service execution traceability. *(2019)*

- **Development of test artifacts in Java using Citrus, Groovy, TestNG, JUnit, and Maven**. *(2019)*
- **Configuration of Continuous Deployment builds for API products and test artifacts in Microsoft Azure DevOps**. *(Bancolombia 2019)*
- **Pipeline configuration in Azure DevOps for API product deployment and publication**. *(Bancolombia 2019)*
- **Development of a project using the LoopBack framework**, implemented in an IBM Cloud Foundry Node.js app for an API hackathon. *(Bancolombia 2018)*
- **Creation of Java libraries and configuration in Azure DevOps for package usage and restoration during the build phase**. *(2018)*
- **Unit testing for microservices using JUnit**, executed in an automated pipeline on Azure DevOps. *(Bancolombia 2018)*
- **Development of a mock backend in Java for API consumption simulation using Cosmos DB**. *(Bancolombia 2018)*

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