

Jorge Alejandro

Aguirre Gutiérrez

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Systems Engineer

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**Experience**

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

**English level Intermediate**

**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  
Contact: +57 317 3831527

AWS CLOUD PRACTITIONER

AWS SOLUTIONS ARCHITECT

AWS DEVELOPER ASSOCIATE

AWS AI PRACTITIONER EARLY ADOPTER

URL: <https://www.credly.com/users/jorge-alejandro-aguirre-gutierrez>

**Personal Data**

**Education**

**Certifications**

**Nacionality**

Colombian

**Date of Birth**

Salamina Caldas, December 20, 1995

**Identification**

C.C: 1.053.847.607 Manizales, Caldas

**Marital Status**

Single

**Technician in administrative Assistance**

SENA, 2012

**Systems and Computer Engineeer**

Caldas University, 2018

**Technical Commercial High School**

Sara Ospina Grisales Institution, 2012

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* **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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