


# ANDRES SANTIAGO DUCUARA VELASQUEZ

Website 

san.duve@hotmail.com  (+57) 3045448607

## EDUCATION

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### *Graduate*

- **Computer Science & Artificial Intelligence** **Universidad Sergio Arboleda**  
Engineer in Computer Science and Artificial Intelligence April 2024

### *Masters*

- **Master in Artificial Intelligence** **Universidad Sergio Arboleda**  
Ongoing

## EXPERIENCE

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### **Contraloría General de la República**

August 2024 – December 2024

*Data Engineer*

*Bogotá, COL*

- Structuring and continuous improvement of analytical models through efficient automation of each stage of the ETL process.
- Implementation of solutions based on Azure and Databricks, using Python and SQL to optimize the processing and analysis of large data volumes.
- Design and deployment of interactive dashboards in Power BI for effective visualization of analytical results.

### **Unidad de Planeación Minero Energética - UPME**

May 2024 – December 2024

*Artificial Intelligence Engineer*

*Bogotá, COL*

- Development of pilot projects and research of artificial intelligence solutions to optimize critical processes within the organization.
- Integration of artificial intelligence solutions.

### **Contraloría General de la República**

November 2023 – December 2023

*Data Analyst*

*Bogotá, COL*

- Provision of services to support document management for the Information Unit of the Directorate of Information, Analysis, and Immediate Reaction (DIARI).
- Support in various projects of the entity related to OCR and web applications on Azure cloud architecture.

### **Universidad Sergio Arboleda**

August 2023 – June 2024

*Mathematical talent's teacher*

*Bogotá, COL*

- Teaching courses related to technology, such as robotics, communication protocols, programming fundamentals, among others, aimed at children and adolescents.

### **Contraloría General de la República**

January 2022 – August 2022

*Data Engineer*

*Bogotá, COL*

- Provision of management support services in the administrative assistance, handling of information and documentation of the activities of the DIARI. (Dirección de información, Análisis y Reacción Inmediata).
- Structuring public data from territorial entities at the central level and universities, implementing Azure services (Pipelines and Databricks).
- Development projects related to the use of OCR, web scraping, Python, or Azure applications.

## CERTIFICATES

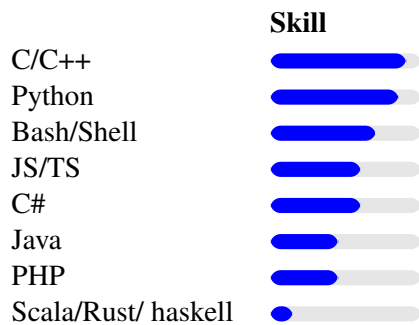
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- Fundamentals of Accelerated Computing with CUDA C/C++ [NVIDIA DLI]
- NDG Linux Essentials [NDG Netdevgroup]
- Introduction to Packet tracer [CISCO Networking Academy]
- Programming Essentials in Python [EDG Python Institute]
- Programming Essentials in C++ [EDG C++ Institute]
- Database Design and Programming with SQL – Oracle [Oracle Academy]
- Programación en Java [Politécnico de Colombia]
- Programación en PHP [Politécnico de Colombia]

## TECHNICAL STRENGTHS

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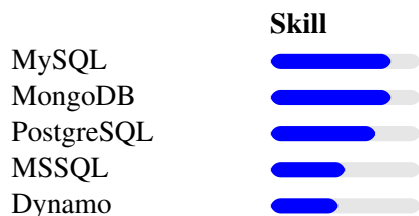
### Computer Languages



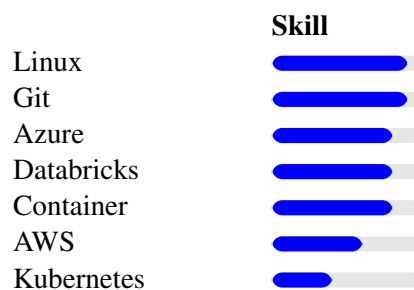
### Frameworks



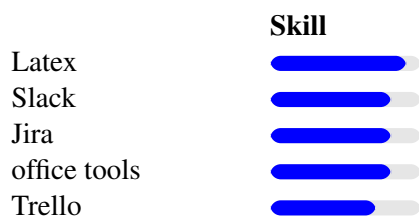
### Databases



### Cloud & DevOps skills



### Productivity & collaboration suites



### High performance & AI computing

- **ML:** TensorFlow, PyTorch, Keras, Scikit-learn
- **GPU Computing:** CUDA, Numba, OpenCL
- **NLP:** Hugging Face, Transformers, LangChain
- **Parallel Computing:** MPI, OpenMP, SYCL
- **Distributed Systems:** Apache Spark, Hadoop
- **Electronics:** Embedded Systems, IoT, Robotics, EDA