

ANDRES SANTIAGO DUCUARA VELASQUEZ

Website ◇ 

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EDUCATION

Universidad Sergio Arboleda

March 2024

Bachelor of Science in Computer Science and Artificial Intelligence

EXPERIENCE

Universidad Sergio Arboleda

August 2023 – December 2023

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

- 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 of public data of territorial entities at the central level and universities.
- Support in different projects of the entity in the use of OCR, Web scrapping, Python and Azure applications.

Surtiviveres Cañaverales

Administrative Assistant

Bogotá, COL

- Personal and telephone customer service, invoicing, banking, filing of documents.

PROJECTS

Determination of the Characteristics of Exoplanets GJ-436

2020

Castro. A, Ducuara. A, Rincón. N, Rios. L

- Article published in the magazine 'Advance in mechanics' of 'Chinese Science Academy of Engineering', where by means of different techniques the characteristics of an exoplanet are determined.
- The data delivered by the satellite were analyzed using methods such as transit, radial velocity, among others, to determine the characteristics of the exoplanet GJ-436.

Programming Marathon

2021-2023

- Implementation of an automated judge, DomJudge, for a programming competition within the faculty of engineering at Universidad Sergio Arboleda.
- Proposed different problems to be solved at the competition.

Gardarov

2023

- It is an Internet of Things application, which seeks to solve problems focused on wearables.
- Use of networked embedded systems and MQTT communication, and machine learning models for detection and recommendation.

TECHNICAL STRENGTHS

Computer Languages	C/C++, bash, shell, C#, Python, Java, JavaScript, TypeScript, PHP, Scala, Haskell
Protocols & APIs	JSON, REST
Frameworks	TensorFlow, CUDA, spaCy, NLTK, MPI, OpenMP Web Sockets, Apache Spark
Databases	Relational DB (MySQL, PostgreSQL, SQL), No Relational (MongoDB, dynamo, Parquets)
Tools	VM, Vim, Emacs, Containers, Git
Operating systems	Linux/GNU, Windows
Software applications	Latex, Jira, Google Suite, slack, Trello.

LANGUAGE

- Native Spanish.
- Intermediate English.

SKILLS

- Dreamer, love for different disciplines, fast learner, teaching, research skills, team player, critical and analytical thinking, creative, innovative and problem-solving.

COURSES, CERTIFICATES AND AWARDS

- 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]
- Winner of the robotics competition 2023-1 of Sergio Arboleda university