Jherson Medina Correa

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As an aspiring scientist, software engineer, and passionate advocate for innovation, I am dedicated to creating a positive impact and helping people. With a strong background in software development and bioinformatics research, I am eager to explore new frontiers in both technology and science to make a meaningful difference.

EXPERIENCE

Backend Engineer · Instaleap   Bogotá, Colombia · May 2022– Sep 2023
- Worked in **distributed** event-driven backend service deployed in **AWS.**
- Periodically generated over **5k** automatic routes per day.
- Implemented **Typescript** concurrent **algorithms** in **Node.js.**

Software engineer Intern · Meta   London, UK · January – April 2022
- Expose read availability and data completeness metrics for large scale **distributed** systems.
- Implemented **multithreaded C++ algorithms** and exposed metrics using **PHP** and **Python.**
- Automatized debugging process for reading streams with over a **million** logs.

EDUCATION

MSc. Computational Biology   Expected to graduate in 2025
Universidad de los Andes · Bogotá, Colombia
BSc. Computer Engineering   Graduated in 2023
Universidad Nacional de Colombia · Bogotá, Colombia   GPA 4.3/5.0

PROJECTS

Bioinformatics Specialization   October 2023 – January 2024
- Implemented assembly, alignment and clustering algorithms in **C++** and **Python**
- **Dynamic programming, Strings, Tree traversals** and **heuristics** approaches were used.

WhatsApp alike application   October 2021– February 2022
IRIS
- Developed an API Rest authentication microservice.
- Used **Go** and **Gin** framework, and **MongoDB** NoSQL database.

Lexical analyzer generator.   October 2020 – December 2020
LexLuthorUN
- Implemented several automata and graph traversal **algorithms**.
- Optimizations such as **Dynamic Programming** on **Trees** were used in **C++.**

SKILLS

PROGRAMMING LANGUAGES
- Typescript (1 year, professional)
- C/C++ (1 year, academic)
- Java, Python (< 1 year, academic)

AWARDS
- **2nd** place at 2023 **ICPC** Colombia – National Programming Contest.
- **3rd place** at 2023 **ICPC** South America-North Finals.
- Problem Solving (**Advanced**) Certificate (HackerRank, 2020).

TECHNOLOGIES
AWS, Terraform, Postman, Grafana, Swagger, RabbitMQ, gMock, Git, Prometheus, MongoDB, DynamoDB, PostgreSQL, MySQL, Docker.

LANGUAGES
- Spanish (Native)
- English (Fluent)

CERTIFICATIONS
- Bioinformatics Specialization.
- Parallel, Concurrent, and Distributed Programming in Java Specialization.
- Introduction to Discrete Mathematics for Computer Science Specialization.
- Data Structures and Algorithms Specialization.