

EDUCATION

Bogotá, Col **Universidad Nacional de Colombia** **2016-2022**
Bachelor of Engineering - BE - Systems and Computer Engineering

TECHNICAL EXPERIENCE

Software Engineer Intern at IBM **Jul 2021 - Dec 2021**

- I managed to optimize a database replication process that took 12 hours to 1 hour.
- I managed to solve the foreign key conflict for the replication of a very large relational database by applying the topological ordering algorithm.

Projects:

Quick Test CLI **Jun 2021 - Present**
CLI for Stress Testing in Competitive Programming

See Project: github.com/LuisMBaezCo/quicktest

- I was able to automate a tedious process such as testing the correctness and efficiency of algorithms with a CLI that performs stress tests for competitive programming competitions.

C++ Algorithm Snippets **Jul 2020 - Present**
Set of algorithms and data structures implemented in C++ for use in competitive programming.

See Project: github.com/LuisMBaezCo/cpp-algorithm-snippets

- I implemented some advanced algorithms and data structures in C++ using the OOP paradigm and the functional paradigm.
- I created a python script to generate the snippets compatible with VSCode and Vim.

LANGUAGES AND TECHNOLOGIES

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| <ul style="list-style-type: none">• Programming Languages<ul style="list-style-type: none">◦ C++ (Intermediate)◦ Python (Intermediate)◦ Rust (Intermediate)◦ Java (Intermediate)◦ Javascript - Node.js (Intermediate) | <ul style="list-style-type: none">• Technologies<ul style="list-style-type: none">◦ Git (Intermediate)◦ Unix (Intermediate)◦ SQL (Intermediate)◦ Kubernetes (Basic) |
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HONOR AND AWARD

Hackathons:

- **2rd Place Ironhacks Competition 2018 (RCODI Purdue University)** **May-Jul 2018**
It was a programming hackathon among the students of the UNAL organized by Purdue University. I created an application with Javascript that used the Google Map API to visualize around 100,000 data using statistical theory to analyze the data.