

## EDUCATION

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

## TECHNICAL EXPERIENCE

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**Software Engineer at IBM** **Jan 2022 - Oct 2022**

- I participate in the migration process of multiple APIs and Microservices built with old technologies to JavaScript.
- I carried out DevOps activities in the migration process of these APIs.

**Software Engineer Intern at IBM** **Jul 2021 - Jan 2022**

- 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](https://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](https://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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- **Programming Languages**

- **Javascript/Typescript - Node.js** (Intermediate)
- **C++** (Intermediate)
- **Python** (Intermediate)
- **Rust** (Intermediate)
- **Java** (Intermediate)

- **Technologies**

- **Git** (Intermediate)
- **Unix** (Intermediate)
- **SQL** (Intermediate)
- **Docker** (Intermediate)
- **Kubernetes** (Basic)
- **OpenShift** (Basic)

## HONOR AND AWARD

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### Hackathons:

- **2nd 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.