

Jairo Nicolás Gómez Mendoza

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EDUCATION

Universidad de los Andes, Systems and Computing Engineering **Bogotá, Colombia**

Graduation Date: April 2025

Relevant coursework: Data Structures & Algorithms, Databases SQL, Web Programming, Natural Language Processing, Software Architecture, Mobile Development, Design and Analysis of Algorithms.

PROJECTS

Web App Tournaments (JavaScript) Jan. 2024 - Present

- Created a web application using React on the frontend and NestJS on the backend with interaction to a PostgreSQL database via TypeORM, enabling business administrators to publish tournaments information, and athletes to register and participate.
- This project is used by students from the Web Programming class from my university as a guide for their own web projects. Still in development for thesis and entrepreneurship purposes.

Mobile App Instagram (Flutter) Aug. 2023 – Dic. 2023

- Created a mobile application similar to Instagram using Flutter and Dart with Firebase as the database, where users could upload and choose in which category post their photos and then view them on the feed.
- Implemented the architectural pattern Bloc for state and event management and CLEAN architecture as the software design. This project was developed with a team of 6 people, guided by a classmate and me in the GitHub repository management and git flow to achieve the course goals and good communication within the team.

Search Engine BSI & RRDV (Python) Sep. 2023 - Oct. 2023

- Implemented a search engine for document retrieval with pandas, NumPy and spacy from a dataset of 330 documents using two strategies.
- Implemented a document retrieval program where given a query, it retrieved the first top 30 documents more relevant for the query ordered by the cosine similarity, using the ranked retrieval and document vectorization (RRDV) strategy by implementing a td-idf weighting for each document.
- Created a binary search with an inverted index (BSII) for doing some queries (AND/NOT) to retrieve documents.

EXPERIENCE

Tutor (Web Development Course) Aug. 2023 – Present

- Guided and enhance students' skills in carrying out React and NestJS software projects by providing feedback on their deliverables, grading their workshops, and addressing their doubts. Assisted the professor in grading exams and analyzing students' deliverables.
- This tutoring leveraged and improved dynamics of the class by changing deliverables to be a more proactive and interesting course and improved communication with students.

Personal Business (FBA Amazon Seller) Aug 2021- Dic. 2023

- Sold items through Amazon using the FBA program, leading a team of 3 people.
- Guided the team to succeed in the shipping, digital marketing, finances and selling of the products using concepts related to e-commerce and automatization of process.

SKILLS

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- Python, JavaScript, Dart, Flutter, React, NestJS, PostgreSQL, Git, Scikit-learn, Pandas.