Jairo Alberto Garavito Correa

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PROFESSIONAL PROFILE

Systems Engineer (pending degree) with a solid background in programming, web development (frontend and backend), and data analysis. Strong skills in Python and data analytics. Experience as an academic teaching assistant for core courses such as Data Structures, Algorithms, and Modeling & Simulation, developing competencies in algorithmic analysis, optimization, and technical communication. I am interested in applying my skills to support consulting, automation, and digital transformation projects in business environments. Intermediate-advanced English level (B2).

EXPERIENCE

Academic Teaching Assistant – Universidad de los Andes
January 2025 – June 2025
Data Structures and Algorithms
- Support in practical labs focused on lists, trees, graphs, and sorting and search algorithms.
- Guidance for students in implementing data structures and analyzing algorithmic complexity.
- Assistance in feedback sessions and resolution of conceptual and programming questions.

Modeling, Simulation, and Optimization
- Assistance with practical exercises on discrete and continuous simulation.
- Support in mathematical modeling of systems using Python and academic simulation tools.
- Review of assignments and support in understanding heuristics and optimization methods.

Undergraduate Thesis Project – Universidad de los Andes
January 2025 – June 2025
- Development of an analytical solution to optimize course schedules through multidimensional modeling, ETL in Python, and visualization using Power BI.
- Application of relational databases, report automation, and analysis for academic decision-making.

EDUCATION

Universidad de los Andes – Bogotá, Colombia
Systems Engineering
Degree pending (expected graduation: October 2025)
2021 – 2025

SKILLS

Technical Skills
- Object-Oriented Programming (Java, Kotlin)
- Frontend and backend web development
- Data analysis and visualization (Python, Jupyter, visualization libraries)
- Knowledge of Power BI and Tableau
- Strong fundamentals in data structures and algorithms
- Modeling and simulation of systems
- Relational databases (PostgreSQL, MySQL) and SQL queries
- Mathematical optimization and computational heuristics
- Version control with Git and collaborative development environments
- Process automation and ETL workflows in Python
- Data visualization and reporting in Power BI for decision support
- Intermediate-advanced English level (B2)

Soft Skills
- Clear and effective technical communication
- Academic leadership and teamwork

- Logical and structured thinking
- Time management and responsibility in academic environments