

# Juan Velasquez

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Calle 107a # 75-58, Apt 201 • Medellin, Antioquia, Colombia • jdvelasqu2@eafit.edu.co • +57 3232853644

## Education

### Universidad EAFIT

Systems engineering

GPA Grade 4.5 / 5.0

Relevant Coursework: Courses in HTML, CSS, Python, Java, SQL.

Medellin, Colombia

Expected Graduation June 2027

### High School Name

Felix de Bedout Moreno

Technical High School Diploma in Computer Science (Programming Emphasis)

GPA Grade 4.3 / 5.0

ICFES Grade 349/500

Medellin, Colombia

Graduated: December 2022

## Awards & Honors:

- Academic scholarship awarded for highest ICFES score in graduating class.
- Academic scholarship awarded by EAFIT University for participation in a weekend university preparatory program.

## Experience

### Universidad EAFIT

#### Teaching Assistant – Python Programming Course

Medellin, Colombia

February, 2025 – May, 2025

- Assisted faculty and administrative staff in learning Python programming fundamentals
- Supported hands-on lab sessions, debugging code and explaining core programming concepts
- Facilitated learning in a mixed-experience classroom environment

#### Numerical Solutions – Academic Project (Numerical Analysis)

January 2025 – May 2025

- Developed an interactive web application to solve numerical methods covered in a university-level course
- Implemented nonlinear equation solvers including Bisection, Newton–Raphson, Secant, and Multiple Roots methods
- Implemented linear system solvers such as Jacobi, Gauss–Seidel, and SOR methods
- Developed interpolation modules using Vandermonde, Newton, Lagrange, and spline-based methods
- Collaborated in a team-based academic development project.

#### CVCraft – Academic Project (Software Engineering)

July 2024 – November 2024

- Developed a web application that analyzes and filters resumes based on job descriptions using AI techniques
- Implemented functionality to match candidate profiles with job requirements
- Applied software engineering principles including modular design and requirements analysis
- Collaborated with a development team to design and implement core features

#### TravelRate – Academic Project (Integrative Project I)

July 2024 – November 2024

- Developed a web platform for creating personalized travel routes and exploring cities worldwide
- Implemented features for city information retrieval and user-generated travel routes
- Integrated AI-based recommendation functionality to suggest destinations and routes
- Collaborated in a team-based academic project

## Leadership & Activities

### Programming Marathon – Institución Universitaria Salazar y Herrera

Medellin, Colombia

#### Team Participant

November 2022

- Collaborated in a team to solve programming challenges under time constraints
- Contributed to problem analysis, solution design and implementation

### **Skills & Interests**

**Technical:** Python, Java, HTML, CSS, SQL

**Language:** Spanish (Native), English (Intermediate)

**Interests:** Video games, soccer, mechanics, motorcycles