

Juan Almanza

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Passionate High School student with solid leadership and engineering skills. Focused on creating solutions for rural populations and advocating for STEM education, gender equality, and climate crisis.

EXPERIENCE

WOMEN'S ASOCIATION FOR RURAL DEVELOPMENT

Bogota, Colombia

Founder & Technical Leader

April 2022 - Present

ASOFI is a member of the United Nations Generation Equality Leadership Group. A collaborative platform for social activism and gender equality in STEM. With the mission of connecting, empowering, and supporting female talent in STEM for peace-building and rural development, mainly in Colombia.

- Educated numerous students from vulnerable populations in Colombia on programming.
- Directed the research and development of offline communication methods, emphasizing SMS and Voice technologies for broader outreach.
- Oversaw the recruitment and outreach strategies, ensuring the growth and visibility of the organization.
- Presented groundbreaking research at esteemed institutions including Stanford University, Universidad de Los Andes, and key entities such as the United Nations.

STANFORD UNIVERSITY

Stanford, CA

Research Intern

June 2023 - August 2023

- Formulated an advanced algorithm for audio signal processing, enhancing performance in separation systems.
- Devised methods to extract distinct features from tracks, creating unique sound recognition patterns.
- Engineered a Machine Learning model adept at identifying sound patterns, enabling precise separation and classification of audio sources.
- Contributed to research documentation and presented the findings at the Stanford Compression Forum.

NINJO

Remote

Founding Engineer

March 2022 - October 2023

- Spearheaded the development of a platform enabling individuals to share their personal narratives globally.
- Architected a robust system infrastructure incorporating microservices, diverse APIs, CMS, and AI integrations for optimal performance and scalability.
- Utilized a diverse tech stack including Next.js, Express, MongoDB, and Python to ensure efficient system design and functionality.

EDUCATION

COLEGIO SAN ALBERTO MAGNO

Barranquilla, Colombia

High School Junior Student

February 2021 - Present

- Unweighted GPA: 3.7, 1st place on class rank list
- 3rd place in the national programming contest for schools
- Leader of the internal coding club
- Organizer of the internal mathematical olympiad

UNIVERSIDAD ANTONIO NARIÑO

Bogota, Colombia

IOI Training Camp

January 2022 - Present

- Top 3 on national selection contest for International Informatics Olympiads (IOI, OII)
- Intense training on data structures and algorithms (DP, trees, high-performing algorithms)

HONORS

- **Gold medal (1st place)**, National Programming Olympiad (2021, 2022, 2023)
- **3rd place**, National Programming Contest for Schools (2022)
- **1st place**, Community AI's Science Fair (2023)
- **Top 50 Scholar**, Major League Hacking (2022)
- **Colombian Representative**, International Olympiad in Informatics and Iberoamerican Olympiad in Informatics (2022, 2023)

SKILLS

- **Strong leadership skills** (Problem-solving, Mentoring, Public speaking, Planning)
- Experienced in **JavaScript and Python** (React.js, Next.js, React Native, TailwindCSS, Express, FastAPI, Flask, Tensorflow, MongoDB, PostgreSQL)
- High-performance systems and algorithms in **C/C++ and Python**