Ludwig Alvarado Becerra

Computer Science and Data Science student

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Bogotá D.C, Colombia

OBJECTIVE

Motivated and detail-oriented Computer Science and Data Science student with a strong foundation in programming, problem-solving, and leadership. Proven ability to manage complex projects, collaborate with diverse teams, and deliver innovative solutions. Passionate about leveraging technology to drive business efficiency and growth. Fluent in English and Spanish, with professional working proficiency.

EXPERIENCE

- **Association of Collaborative Cartography of Colombia (AC3)** — *Nov. 2024 - Present*
  Founder Member — Bogota, Colombia
  - Developed bash scripts to automate Linux computer setup, including GIS software installation and admin privileges for 4 devices.
  - Managed and analyzed geospatial data, integrating drone orthoimages with GIS platforms to support collaborative cartography projects.
  - Launched a collaborative cartography initiative, coordinating with stakeholders to map underserved regions and foster community involvement.

EDUCATION

- **University of Bogota Jorge Tadeo Lozano** — *Jan. 2022 - Nov. 2026*
  Computer Science — Bogota, Colombia
  - Grade: 4.4/5.0
  - Founded GNUTADEO, a collective promoting free software, organizing workshops to install GNU/Linux on university computers.
  - Established and led TadeoMappers, a YouthMappers chapter, coordinating mapping initiatives with 15+ students and contributing to global GIS datasets.
  - Elected Faculty Representative for Engineering, facilitating communication between students and administration to improve curriculum and campus issues.

- **University of Bogota Jorge Tadeo Lozano** — *Aug. 2023 - Nov. 2026*
  Data Science — Bogota, Colombia
  - Grade: 4.4/5.0
  - Pursuing a double degree in Computer Science and Data Science to integrate technical expertise with advanced analytical methods.

- **Industrial Technical Institute Francisco Jose of Caldas** — *Jan. 2016 - Nov. 2021*
  Specialized in Mechatronic — Bogota, Colombia
  - Grade: 4.2/5.0
  - Awarded Best Graduation Project for designing and building a food molding machine, increasing production efficiency by 50%.
  - Participated in the extracurricular group "Echochatarreros", integrating biodiversity and engineering to develop sustainable science projects.

PROJECTS

- **Filmcast** — *Aug. 2024 - Nov 2024.*
  Web and mobile application [🌐]
  - Develop machine learning methods for integrate a heuristic search of actors given a dataset

SKILLS

- **Programming languages:** Python, Bash, C++, R, SQL, Kotlin, LaTeX
- **Data Science Tools:** Pandas, NumPy, Scikit-Learn, Matplotlib
- **DevOps & Version Control:** Git, GitHub, Docker
- **Soft Skills:** Leadership, teamwork, problem-solving, communication, organization

HONORS AND AWARDS

• **Engineering Fair** *2023 - 2024*
University of Bogota Jorge Tadeo Lozano
  ◦ Secured second place in the software development category by implementing a numerical method for calculating derivatives over datasets, improving computational efficiency. (2023-2S)
  ◦ Won thid place for "Dao", a mobile app designed to facilitate Chinese language learning for beginners. (2024-1S)
  ◦ Achieved third place for "FilmCast", a mobile and web application using machine learning to recommend actors based on director preferences. (2024-2S)

• **Best Graduation Project** *Nov. 2021*
Industrial Technical Institute Francisco Jose of Caldas [⊕]
  ◦ Designed and built a food molding machine for a small business specializing in *arepa* production, leveraging mechatronics skills (3D modeling, Arduino, pneumatics, electronics), which increased productivity above 50%.

LEADERSHIP EXPERIENCE

• **Representative of Natural Science and Engineering Faculty** *Feb. 2024 - Present*
University of Bogota Jorge Tadeo Lozano
  ◦ Collaborated with faculty to design and implement a new engineering curriculum, incorporating feedback from diverse student groups.
  ◦ Managed a WhatsApp channel with over 200 students to facilitate communication, resolve concerns, and gather suggestions for academic improvements.

VOLUNTEER EXPERIENCE

• **Active Mapper, Humanitarian Mapper, Founder of YouthMappers Chapter TadeoMappers** *Jul. 2024 - Present*
OpenStreetMap Foundation and YouthMappers [⊕]
  ◦ Organized humanitarian mapping workshops for 30+ participants, supporting disaster recovery efforts in Chocó, Colombia, in collaboration with HOT and UNGRD.
  ◦ Contributed to OpenStreetMap by mapping biodiversity and infrastructure data, enhancing public geospatial resources.
  ◦ Conducted GIS training sessions for 20+ students, teaching tools like JOSM and QGIS.

• **Free Software Activist** *Feb. 2024 - Present*
University of Bogota Jorge Tadeo Lozano [⊕]
  ◦ Founded GNUTADEO, a collective advocating for free software, and organized workshops to install GNU/Linux on university library computers.
  ◦ Promoted free software principles to students and university community, fostering an open-source culture within the university.

• **FLISoL Coordinator** *Feb. 2024 - May. 2024*
Latin American Free Software Installation Festival (FLISoL) [⊕]
  ◦ Coordinated the 20th FLISoL event, attracting 300+ attendees to promote free software philosophy.
  ◦ Delivered presentations and managed event logistics, ensuring a seamless experience for participants.

ADDITIONAL INFORMATION

Languages: Spanish (Native), English (Professional Working Proficiency: B2), Chinese (Intermediate: HSK3).
Interests: Geospatial technology, open-source software, environmental sustainability, drone mapping, humanitarian mapping.