

Ludwig Alvarado Becerra

Systems Engineering & Data Science Student

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OBJECTIVE

Final year dual degree student with hands-on experience in Git, GitHub Actions, Docker, and Linux environments. Contributor to open source and academic projects with focus on automation, CI/CD, and scalable infrastructure. Seeking a DevOps internship to apply technical expertise and teamwork while advancing cloud and automation skills.

PROFESSIONAL EXPERIENCE

- **Professor Assistant** Feb. 2025 – Present
University of Bogotá Jorge Tadeo Lozano Bogotá, Colombia
 - Guided students in Data Structures & Mobile Applications, providing academic support and feedback.
 - Designed practice problems and promoted competitive programming training.
- **Founder Member & Substitute Legal Representative** Nov. 2024 – Present
Asociación de Cartografía Colaborativa de Colombia Bogotá, Colombia
 - Automated Linux workstation setup with Bash scripting, GIS tools, and user management.
 - Coordinated collaborative mapping initiatives with NGOs, students, and communities.




ACADEMIC EXPERIENCE

- **Founder & Leader** Nov. 2024 – Present
Segmentation Fault – Competitive Programming Group Bogotá, Colombia
 - Established university's first CP group, helping students to get involved into CP.
 - Organized weekly trainings and contests, mentoring peers in algorithms and data structures.
- **Student Representative** Mar. 2024 – Present
Technology & Industries, Utadeo Bogotá, Colombia
 - Advocated curricular improvements aligned with industry needs.
 - Facilitated communication between students, professors, and administration.

EDUCATION

- **Dual Degree: Systems Engineering & Data Science** Expected Nov. 2026
University of Bogotá Jorge Tadeo Lozano Bogotá, Colombia
 - Grade: 4.4/5.0
 - Relevant coursework: Data Structures, Cloud Computing, Dynamic Systems.
 - Honors: Engineering Fair Awards (2nd and 3rd place, 2023–2024).
- **High School Diploma – Industrial Mechatronics** Nov. 2021
Industrial Technical Institute F.J. of Caldas Bogotá, Colombia
 - Best Graduation Project: Designed and built a food molding machine using Arduino & pneumatics.

PROJECTS

- **Maratón de Programación Utadeo** Ongoing
Local Programming Contest Infrastructure 
 - Built and deployed competitive programming contest environment with Dockerized infrastructure.
- **FilmCast** Aug. 2024 – Nov. 2024
Web and Mobile Application 
 - Developed ML algorithm for actor recommendation; built REST API backend; deployed using Docker and local server.
- **Dao** Mar. 2024 – Jun. 2024
Mobile Application 
 - Designed app to support Chinese learning (HSK levels), applying user-centered design.

SKILLS

Programming: Python, C++, Bash, SQL, \LaTeX

DevOps & Tools: Git, GitHub Actions, Docker, Linux System Administration, CI/CD, Azure DevOps (basic)

Other: QGIS, JOSM, Emacs (org-mode)

HONORS AND AWARDS

- Engineering Fair Awards – Utadeo (2nd & 3rd place, 2023–2024).
- Best Graduation Project – Mechatronics (2021).

VOLUNTEER EXPERIENCE

- Kubernetes Community Days Bogotá (2025) – Assisted logistics & technical setup.
- Founder, TadeoMappers (2024–Present) – Organized humanitarian mapping workshops.
- GNUTADEO (2024–Present) – Promoted Linux adoption, coordinated FLISoL with 300+ attendees.
- FLISoL Coordinator (2024–2026) – Managed workshops & events with 850+ participants.

ADDITIONAL INFORMATION

Languages: Spanish (Native), English (B2), Chinese (HSK3)

Interests: Competitive programming, open source, infrastructure, geospatial tech.