

Daniel Felipe Triviño Santana

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Education

BS	Universidad de los Andes , Systems and Computer Engineering	Bogotá, Colombia Jan 2021 – present
• Currently working on developing a full-stack web application using AI agents to help design students define their capstone projects. • Worked as a TA and Research Assistant for 5+ semesters. • Teaching assistant work for the classes Introduction to Programming (two semesters), Discrete Mathematics (two semesters), Object-Oriented Design and Programming, and Algorithm Design and Analysis. • Research work with Professor Rubén Manrique, PhD. • GPA 4.21 / 5.00		

Projects

Web & Mobile App for Gas Station Census	Bogotá Dec 2024 – June 2025
Recruited and led a team of young, independent developers for the development of a large-scale census application for regional gas stations, coordinating a team of engineers and delivering a production-ready solution deployed on Google Cloud. The application serves as an internal tool for Multiaservi to survey gas stations across Cundinamarca and other regions for auditing and taxation processes in state projects. I led every step from ideation, recruiting, contracting, design, development, deployment and handoff. • Directed the design and integration of web (Angular) and mobile (Flutter) frontends with a NestJS backend and PostgreSQL database. • Deployed the system into production using Google Cloud services, enabling accurate, efficient, and scalable data collection.	
Research Assistant - Full-Stack AI-Powered Web Application	Bogotá Jan 2025 – present
Worked with professor Rubén Manrique PhD and professor and doctorate student Edier Becerra in developing a full-stack web application to support design students in defining and refining their capstone projects through AI-powered guidance and interaction. • Built using JavaScript, Angular, NestJS, PostgreSQL, LangGraph, LangChain, AI models, and Azure for deployment and scalability. • Integrated regular and gamified AI agents that allow students to interact, brainstorm, and receive guidance throughout their project design process. • Contributing both technical expertise and research collaboration to advance a doctoral student's thesis while creating a tool with direct academic and practical impact.	
Python API for Trucking Company Management System	Monterrey, Mexico (Remote) Mar 2024 – Jan 2025
Developed a Python API for a web application focused on trucking company trip and data management as a contract developer for Nodoo. • Built robust API using Python and SQLAlchemy for efficient database operations and data management. • Deployed serverless architecture using AWS Lambda for scalable and cost-effective cloud deployment. • Gained significant experience in backend development and cloud-based solutions, playing a major role in professional development as a developer.	

Skills

Programming: Proficient with JavaScript / TypeScript, Angular, NestJS, Python, SQL and Git - GitHub; Professional work in web app development

Cloud: Able to ideate different architectures based on the requirements. Capable of deploying apps to the cloud using different approaches (Virtual Machines, Serverless, Managed Services such as App Engine). Most proficient with GCP and good understanding of Azure and AWS

Leadership: Recruited and led a team of young developers to deliver the Gas Station Census App as contract work. Experience dealing with the client, gathering requirements, overseeing development and helping teammates grow

Languages: English (fluent at a professional level), Spanish (native)

Extracurricular Activities

- **Robocol Mars Rover Project Leader** (Jul 2023 - Jan 2024): Led the Mars Exploration Rover team with 5 subsystem leaders, coordinating engineering documents, presentations, and preparations for the University Rover Challenge at Mars Desert Research Station.
- **Robocol Motion Control Team Leader** (Jan 2023 - Dec 2023): Built and mentored a new team, teaching electronics, PCB design, programming with Python/ROS, and competed at the 2022 University Rover Challenge.
- **University Swimming Team Member** (2021 - 2023): Competed at a high performance level as part of Universidad de los Andes swimming team.