

# Juan Martin Santos Ayala

Software Engineer | Backend | DevOps | ML/AI

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## PROFILE

Systems and Computer Engineer (Universidad de los Andes); bilingual, focused on backend development and DevOps and currently growing into Machine Learning & AI. Experienced with React web apps, PostgreSQL/Redshift migrations, NestJS refactors, backend and frontend development and data analysis. Comfortable with TypeScript, Python 3, Java, Linux/macOS, Power BI, AWS and GCP. Strong at collaborating with multidisciplinary teams, adaptability, problem-solving, attention to detail and effective communication. Available for hybrid or remote work.

## EXPERIENCE

### Software Engineer Associate

Since Apr 2026

Scotiabank · Remote

- Specialized in the maintenance and evolution of enterprise applications.
- Lead validations in UAT/IST environments, technical migrations and vulnerability remediation, strengthening platform stability and security.
- Apply dependency analysis, technical documentation and troubleshooting, promoting Cloud Security and Application Security best practices.

### Software Engineer

Jan 2025 to Mar 2026

3D Virtual Environment Solutions · Hybrid

- Responsible for backend development using JavaScript and Python microservices.
- Managed Lambda functions and oversaw deployments on AWS (ECS, ECR).
- Improved code by applying Domain-Driven Design (DDD) and Clean Code principles, delivering scalable, maintainable solutions.

### Product Engineer

May to Dec 2024

Centrito SAS · On-site

- Refactored backend code using DDD and CQRS design patterns, migrating it to NestJS and completing 35% of integration.
- Designed a method to replicate the production database (Supabase) into an AWS Redshift cluster.
- Reduced operational and business-query load, decreasing cluster size by 85%.

### Jr. Test Analyst

Jan to Aug 2023

Integra IT

- Resolved "code smells" identified in SonarCloud, ensuring code quality and 80% coverage.
- Developed automated tests using Jest in TypeScript for several projects.
- Successfully maintained over 80% test coverage in each project.

## EDUCATION

### M.S. Software Engineering (MISO)

Since 2025

Universidad de los Andes

- Part-time master's program focused on software engineering and applied systems design.

### B.Sc. Systems & Computer Engineering

Aug 2020 to Oct 2024

Universidad de los Andes

- Undergraduate program with a strong focus on software engineering fundamentals.

## SKILLS

### Backend Development

Python 3, Java 17, Node.js, NestJS

### DevOps & Cloud

AWS, GCP, Docker, Linux

### Frontend & Web

React, HTML5, CSS, TypeScript

### Machine Learning & AI

Python data stack, LLMs (learning)

## STACK

Python 3 · Java 17 · TypeScript · JavaScript ·  
React · Node.js · NestJS · Django · AWS · GCP  
· Git · Linux

## LANGUAGES

Spanish · Native

English · C1 (IELTS 8.0)

## CERTIFICATIONS

### IELTS Academic

Band 8.0 / C1 English (2023)

### Python Development

Training-Program Cert.

