

Julián Camilo Rivera Monroy

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Github Profile

Profile

Systems and Computer Engineer from Universidad de los Andes, Colombia, with hands-on experience in **machine learning, data pipelines, cloud computing (AWS & GCP), and full-stack development**. Passionate about building **scalable AI-driven applications** and contributing to **research-oriented, high-performance engineering teams**. Skilled in problem-solving, teamwork, and ownership, with a strong commitment to excellence and continuous learning.

Employment History

- 2025 **Junior Developer**, *Quality Software SAS*, Bogotá
FullStack developer and founding engineer for a new company product. Designed and implemented solutions using React, TypeScript, Django REST, PostgreSQL, and AWS. Gained experience in software architecture, Git flows, and project organization, with ownership of end-to-end development and deployment workflows.
- 2023 **Software Engineering Intern**, *BTG Pactual*, Bogotá
Developed and deployed a **data-driven full-stack web platform** integrating AWS Lambdas, serverless microservices, and PostgreSQL. Designed and optimized **data pipelines for information retrieval and transformation**, ensuring secure, scalable APIs. Strengthened expertise in **cloud-native engineering** and **enterprise data management**.

Education

- 2025 **Systems and Computer Engineer**, *Universidad de los Andes*, Bogotá
Systems and Computer Engineer from Universidad de los Andes, Colombia. Recipient of the “Quiero Estudiar” scholarship. Completed a degree project within the Smart Campus initiative, focused on **mobile applications, data processing and storage automation, Big Data, and machine learning**.

Projects

- Sep 2025 – **Stock Investment web page**, *Personal Project*, Github Repository
- Oct 2025 – A full-stack application that aggregates analyst recommendations and provides AI-powered investment insights. Built with Go backend and Vue.js frontend.
- Aug 2025 – **RAG Product Recommender**, *Personal Project*, Github Repository
- Aug 2025 – A production-ready RAG (Retrieval-Augmented Generation) system for product recommendations, demonstrating SOLID principles and clean architecture in ML systems. Build entirely using python: huggingface, numpy, pandas, torch, transformers and streamlit
- Jun 2024 – **SmartCampus**, *Universidad de los Andes*
- Dec 2024 – Degree final project: mobile application that, through authentication and role discriminations, enables the visualization of demographic distribution across campus. Built with Kotlin Multiplatform, Swift, Firebase, Android Studio, and Xcode. Focused on **data processing, distributed systems, and real-time insights**.
- Jan 2024 – **Predictive Lung Cancer Model**, *Universidad de los Andes & Hospital Santafé*
- Jun 2024 – Team project to predict lung cancer probabilities using **machine learning models** trained on demographic, behavioral, and living condition data. Used Python, Scikit-learn, GCP Pipelines, and Google Colab. Built dashboards in Power BI to communicate insights.

Certificates

- 2025 **Building Transformer-Based Natural Language Processing Applications**, *Nvidia*, Certificate of Competency
- 2025 **Fundamentals of Deep Learning**, *Nvidia*, Certificate of Competency
- 2025 **Building LLM Applications With Prompt Engineering**, *Nvidia*, Certificate of Competency
- 2025 **Learn Go Course**, *Codecademy*, Certificate of Completion
- 2025 **Learn Go: Loops, Arrays, Maps, and Structs**, *Codecademy*, Certificate of Completion
- 2025 **Learn Intermediate Go Course**, *Codecademy*, Certificate of Completion
- 2024 **Generative AI with Diffusion Models**, *Nvidia*, Certificate of Competency

Skills

Data & Cloud

AWS (Lambdas, Glue), GCP (Pipelines, BigQuery), PostgreSQL, MongoDB, Relational and NoSQL Databases.

Machine Learning & Analytics

Python (Scikit-learn, Pandas), Predictive Modeling, ML Pipelines, LLM integration, Power BI, Data Processing and Visualization.

Software Development

React, Django, Node.js, TypeScript, JavaScript, Go, Java (11 & 17), Kotlin Multiplatform, Swift, CSS, HTML, CSS, Flutter.

Soft Skills

- **Ownership & Responsibility:** End-to-end project delivery and accountability.
- **Collaboration:** Experience in cross-functional teams in startups, banks, and research.
- **Continuous Learning:** Strong interest in AI/ML research and applied engineering.
- **Problem-Solving:** Applying critical thinking to business and healthcare challenges.

Languages

Spanish Native
English C1 Proficiency