Juan Francisco Ramírez Escobar

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Systems Engineer and final-year Data Science student at Pontificia Universidad Javeriana (Bogotá), with B2 English proficiency and full-time experience in back-end development, complemented by knowledge in mobile development, data modeling, ETL pipeline design, and machine learning. My current focus areas include cloud computing, asynchronous communication, and LeetCode problem-solving. I have contributed to multiple projects through my participation in computer science groups such as ACM Javeriana and recently co-founded a company focused on AI-driven automations. I consider myself a well-rounded professional with strong teamwork, cross-stakeholder communication, problem-solving, and adaptability skills within agile environments (SCRUM). As a self-motivated individual, I continuously seek opportunities to apply and expand my knowledge across both personal and professional domains.

SKILLS:
- **Advsnced:** Java; Kotlin; Dart; Python; SQL; C++; Spring Boot; Express.js; Flutter; Android Studio; MySQL; PostgreSQL; Git; Github; n8n
- **Elemental:** Amazon Web Services; Google Cloud; Google Maps API; Power BI; Go; C# JavaScript; TypeScript; React; .NET; MongoDB; Redis; Docker; RabbitMQ.

LANGUAGES
- Spanish (native)
- English (intermediate) – B2

EXPERIENCE

Custom Software Engineer Associate *(jun. 2025 – now) - Accenture*
Bogotá
2025
now

Tax Certificates Project – Major Colombian Banking Organization

- Actively contributed to the Tax Certificates Project, implementing back-end functionalities using Java and Spring Boot within a microservice architecture.
- Integrated asynchronous communication events, leveraging Publisher-Subscriber patterns to support project interactions.
- Delivered project features involving the client's cloud service infrastructure (AWS).
- Managed and incorporated template-based PDF document generation and automated email delivery.

Cofounder – IartificialCOL
Bogotá
2025
now

AI driven automations solutions for SMEs - Colombia

- Co-founded IartificialCOL, a startup focused on automating high-volume operational workflows for SMEs and retail/gastronomy businesses through conversational agents, generative AI, and custom automation pipelines, reducing operational costs while increasing lead conversion rates.
- Designed and implemented end-to-end workflow architectures integrating Chatwoot, Evolution API, WhatsApp Business, AWS, n8n, and PDFMonkey to support messaging automation, catalog interaction, bookings, payments, and intelligent human handoff.

ACADEMIC BACKGROUND

Pontificia Universidad Javeriana
Bogotá
2021 - 2026

Systems Engineering – GPA (4.5/5)

- Teacher Assistant of courses such as Advanced Programming, Software Analysis and Design and Informations Systems in Organization, offered by the engineer faculty of the university.
- Led sessions for over 50 students on software development practices, including SOLID principles, software design patterns, and software diagramming, among other topics.
- Designed and implemented practical exercises to reinforce Object-Oriented Programming concepts, including polymorphism, generalization, and the use of interfaces.

Pontificia Universidad Javeriana
Bogotá
2023 - 2026

Data Science – GPA (4.2 / 5)

Universidad Nacional de Colombia
Bogotá
2013-2018

Foreign Languages Program – English (B2)

PROJECTS

Easy Market – Honor Thesis
Bogotá
2024 – 2025

Academic Thesis Project – Systems Engineering

- Participated in the development of a Software Product Line (SPL) focused on order management within organizations. Implemented under a service-oriented architecture (SOA), enabling 144 marketplace combinations to allow the selection of specific features based on business requirements, with a focus on marketplaces.
- Full multiplatform support (Android, iOS, Web) with Stripe integration for electronic payment processing.
- Integrated geolocation services from the Google API, and Firebase services like RealTime Database, Storage, and Auth.
- Spring Boot and PostgreSQL-based backend with real-time database synchronization through Supabase.

All Connected – Pontificia Universidad Javeriana   *Bogotá*
Software Architecture Project – Systems Engineering   *2024*
- Developed a PWA with a service-oriented architecture, aiming to connect various types of businesses with students in one platform.
- Implemented web services using frameworks such as Spring Boot and .NET, and partially integrated user features via Next.js.
- Led the requirements engineering process with the client and actively participated in the system architecture design.

Association for Computing Machinery (PUJ)   *Bogotá*
ACM Member – Chairman 2023.   *2021 - 2024*
- Developed and led comprehensive workshops on advanced programming and programming fundamentals for 300+ students.
- Organized and conducted Python-based machine learning workshops for 50+ students.
- Led Web Development courses and competitive programming groups, fostering an environment for technical growth.

RECOGNITIONS AND AWARDS

ANATO - PUJ: *Bogotá*
Project PackMyTrip First Place, International Hackathon on Tourism 4.0   *2024*
- Led a multidisciplinary team of Colombian and Costa Rican students; actively contributed to the development of a mobile app aimed at automating the acquisition of travel packages.
- Developed the mobile app using tools such as Android Studio, Retrofit, C#, .NET, integrating external services (Firebase Storage and Google API for map integration).
- The solution was recognized by ANATO and the Systems Engineering Department of PUJ as the most valuable solution for the business process.

Rector's Scholarship, PUJ   *Bogotá*
Granted by the Faculty of Engineering for the entire duration of the bachelor in Systems Engineering   *2021*
- Awarded for outstanding performance as a high school student and maintaining an exceptional weighted average throughout academic coursework.

CERTIFICATIONS
- Amazon Web Services – Cloud Practitioner (2025)
- Continous professional development through learning platforms such as Platzi, with a focus on expanding technical and software engineering skills