

# Felipe Rueda Rivera

## Cloud & Backend Software Engineer

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### PROFESSIONAL SUMMARY

Cloud-native Software Engineer with a strong focus on designing, migrating, and securing scalable architectures on AWS. Proven expertise in backend development, complex database migrations, building resilient microservices, **and integrating AI-driven solutions (such as RAG) to automate complex data analysis**. Adept at leveraging tools like Docker, Java Spring Boot, and Python to deliver end-to-end, high-availability cloud solutions in fast-paced startup and corporate environments.

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### CORE SKILLS

**Cloud & DevOps:** AWS (EC2, S3, Lambda, ECS, RDS, IAM, CloudWatch, Route 53, DMS), Docker, Linux, Git, GitHub Actions.

**AI & Data:** OpenAI API, RAG (Retrieval-Augmented Generation), TensorFlow, PyTorch, Prompt Engineering.

**Databases:** PostgreSQL, MySQL, SQL-Oracle, MongoDB, Firebase.

**Programming:** Python, Java (Spring Boot), JavaScript/TypeScript.

**Web & Architecture:** Microservices, REST APIs, ETL pipelines, Angular, React, Node.js.

**Languages:** Spanish (Native), English (B2), French (B2), German (B1).

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### PROFESSIONAL EXPERIENCE

#### Software Engineer | Finidian — Bogotá Jan 2026 – Present

- Spearheaded a critical database migration from MongoDB to PostgreSQL, ensuring data integrity, minimizing downtime, and optimizing query performance for scalable backend operations.
- Designed and maintained scalable cloud infrastructure on AWS, supporting high-availability microservices for fast-paced product iterations.
- Collaborated in an Agile remote environment to streamline deployment processes and enhance overall system architecture.

#### Assistant Consultant | Management Solutions (FinTech) — Bogotá Jan 2025 – Jan 2026

- Architected and deployed an end-to-end risk information system from scratch on AWS (EC2, S3, Lambda, ECS, Route 53), migrating legacy database, Java Spring Boot services and Angular front-end to the cloud.
  - Built and scheduled Python-based ETL pipelines loading critical financial data and ensuring data integrity; adhered to AWS security best practices (Implemented IAM least-privilege roles, KMS encryption and CloudWatch alerts).
  - Designed and developed a Retrieval-Augmented Generation (RAG) application using Python Flask and the OpenAI API to extract, analyze, and automate the comparison of complex accounting policies across multiple financial statement PDFs.
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### EDUCATION & LEADERSHIP

#### B.Sc. Systems & Computer Engineering | Universidad de los Andes — Bogotá 2020 – 2025

- Teaching Assistant: Guided students in Backend with Python (Flask, MySQL, REST APIs) and Introduction to Programming (Pandas, Matplotlib).
  - **Student Representative:** Represented a constituency of 1,000+ students and drove a transformative cultural shift within the department by spearheading high-impact community events, including the orchestration of DISC Week with a 20-volunteer team. Bridged the gap between students and academic leadership through structured faculty interviews and strategic, data-driven feedback to improve the overall community experience. Additionally, managed the end-to-end design, vendor negotiation, and profitable sales of official department merchandise to successfully fund new opportunities and resources for the student body.
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### SELECTED PROJECTS

- AndesTrack (Thesis): Django-based web platform integrating Garmin API using MySQL to analyze health habits vs academic performance. Deployed on Linux with Gunicorn.