

# Miguel Francisco Ruales Pianda

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*Software Engineering student with 5 years of full-stack development experience. Led teams to first place in Hackathon Parquesoft, built scalable solutions using Next.js, NestJS, and PostgreSQL, and tutored programming at UCC. English proficiency: C2. Focused on TDD, modern architectures, and rapid adoption of new technologies.*

## PROFESSIONAL EXPERIENCE

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### Full-Stack Developer & Product Founder.

FullStack Developer - PM.

Pasto, Colombia

November 2024 – Present

- Developed a complete hotel management platform.
- Integrated government APIs (TRA) to automate mandatory processes.
- Automated legacy JSF-based gov systems (SIRE) via Playwright scraping.
- Built 100+ REST endpoints in NestJS, including SSE and scheduled Cron jobs.
- Designed custom authentication decorators and guards with JWT.
- Generated dynamic forms with unique, shareable URLs and raw SQL analytics queries.
- Documented all endpoints with Swagger and validated via Postman.
- Modeled and optimized PostgreSQL schema with Prisma ORM.
- Wrote unit tests for most controllers and services in Jest, adopting TDD.
- Authored user stories and use cases from functional and non-functional requirements.
- Implemented a Next.js frontend consuming backend endpoints, using React Query hooks and custom contexts.
- Enforced route protection via middleware.
- Styled UI with Tailwind CSS and Shadcn.

### Hackaton Parquesoft 2024.

Team Lead.

Pasto, Colombia

November 2024

- Led a 4-developer team as PM and Scrum Master to a first-place MVP using an innovative regional TI proposal.
- Coordinated daily sprints, delegated 20 tasks, and delivered a working MVP in less than 1 week.
- Mentored teammates one-on-one on development best practices.
- Designed wireframes, database models, and selected the optimal technology stack.
- Employed Firebase as BaaS and deployed a React Native + Expo mobile app.

### Private Programming Tutor.

Tutor of software engineer.

Pasto, Colombia

2024 - Present

- Delivered group tutorials on OOP and Python to classes of 20 students.
- Provided one-on-one support, improving classmates' project grades.
- Conducted basic programming and VBA automation training for a Bancolombia manager.

## EDUCATION

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### Universidad Cooperativa De Colombia.

Ingeniería de Software.

B.Sc. in Software Engineering, 3rd semester (GPA: 4.8/5.0)

Pasto, Colombia

2024-Actualidad

### Universidad Pontificia bolivariana.

Web Applications Bootcamp (800 hours).

Medellín, Colombia

2021 - 2022

### Certificaciones.

Departmental Certification in Digital Ecosystem Innovation Leadership.

Google Cloud Professional Certificate (In Progress).

## ADDITIONAL SKILLS & LANGUAGES

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- Social impact vision, networking, and team leadership.
- Entrepreneurial mindset.
- Spanish (Native), English (Fluent).

## TECHNICAL STACK

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- **Backend & APIs:** NestJS, Node.js, Express, Django.
- **Frontend:** Next.js, React, React Native.
- **Databases:** PostgreSQL, Prisma ORM, Firebase.
- **CI/CD & DevOps:** GitHub Actions, Docker Compose.
- **Architectures:** Microservices, Clean Architecture, Hexagonal, Dirven drive architecture, MVC, MVT
- **Languages:** Typescript, Javascript, C++, Python.
- **Tools & Practices:** JWT, Swagger, Playwright, TDD (Jest), Tailwind CSS, Shadcn, React query, Postman, Git, CSS, HTML, Linux, Bootstrap, Arduino & IOT.