

# Rafael Arias Navarro

Backend Developer

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## 👤 PROFILE

Backend Developer with strong experience in building scalable, secure, and maintainable systems using Python, Flask, and relational databases. Skilled in designing business logic, integrating data flows, and managing backend infrastructure across health and financial systems.

## 🧠 SKILLS

Python • Flask • PostgreSQL • MySQL • Git • Docker • Redis • Github • Rest APIs • SQL Alchemy

## 📁 PROJECTS

### Bold Finance – Business Management System ✕

- Continuously enhance and optimize a business management system for managing expenses, costs, and inventory.
- Refactor existing code and resolve bugs to improve system performance and maintainability.
- Document processes and provide suggestions for system improvements, contributing to a scalable and robust application architecture.

### Bank Management System ✕

- Developed a secure banking API for handling financial processes.
- Designed optimized database schemas for handling complex relationships between users and financial services.
- Integrated secure authentication and authorization mechanisms using JWT.

### Healthcare Web Platform (IPS - Colombia)

- Managed backend logic with raw PHP for CRUD operations without frameworks.
- Ensured data integrity for beneficiaries, relatives, and alert systems.
- Improved maintainability of legacy systems through refactoring.

## 🎓 EDUCATION

Full Stack Software Developer, 4Geeks Academy

07/2023 – 05/2024 | Remote

Accountant, Universidad del Atlántico

2014 – 2022 | Barranquilla, Colombia

## 💼 PROFESSIONAL EXPERIENCE

### Full Stack Developer, DevLabs

01/2025 – 05/2025

- Contribute to the ongoing development of a business management system for handling expenses and costs across multiple branches.
- Collaborate with the team to identify and resolve bugs, ensuring high-quality performance and user satisfaction.
- Refactor existing code to improve maintainability and efficiency, implementing best practices for scalable applications.
- Maintain thorough documentation to promote understanding and adherence to best practices within the development team.

### Python AI Engineer, 4Geeks Academy ✕

09/2024 – 11/2024

- Designed and optimized backend services for AI-powered automation.
- Integrated Django to enhance system performance and security.
- Implemented data processing pipelines for handling large-scale AI-driven tasks.
- Applied RAG techniques to improve chatbot responses and document retrieval accuracy.

### Freelance Developer (IPS Web Platform)

04/2025 – present

- Managed backend CRUD operations directly in PHP without a modern framework, ensuring secure and efficient database access.
- Updated and optimized existing code evolving user needs and data flows. Implemented front-end logic to synchronize with backend operations in the absence of APIs or endpoints.
- Refactored legacy code to improve maintainability and cross-module consistency across PHP layers.

## 🌐 LANGUAGES

Spanish  
Native

English  
Fluent