

# FREDDY ROJAS

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## Skills

- **Programming languages:** Golang | Python | Javascript, TypeScript, Node.js
- **Backend technologies:** Gorilla/mux, Gin, | Flask, FastAPI, Django, Express, Hapi, Koa.js, NestJS | RESTful APIs, GraphQL, gRPC, WebSockets.
- **AI, LLMs & Low-Code/No-Code:** OpenAI, Gemini, Ollama | RAG | CAG | LightRAG | AnythingLLM | LiteLLM | LangChain | LangGraph | LangSmith | n8n | Streamlit | ChromaDB | PGvector
- **DevOps tools:** AWS/AZURE/GCP, Docker, Kubernetes, CI/CD (Jenkins/GitHub Actions), Terraform
- **Database management systems:** PostgreSQL, MySQL, DynamoDB, Redis (cache and sessions), MongoDB, SQLC
- **Frontend technologies:** Angular | React, Next.js | Vue | CSS, Tailwind CSS, Bootstrap
- **Architecture and Design:** Object-Oriented Programming (OOP) | Functional Programming | Design Patterns, Data Structures, Algorithms | Domain-Driven Design (DDD) | Test-Driven Development (TDD) | Hexagonal Architecture | Multithreaded and Asynchronous Programming
- **Automation & Testing:** Selenium, Puppeteer, Playwright, Requests, Cheerio, HTTP, BeautifulSoup, Fetch, Axios.

## Experience

<b>Software and AI Engineer</b>	<b>GLOBAL STREAMING SOLUTIONS</b>	<b>Remote</b>	<b>01/2024 - Now</b>
➤ HIGH AVAILABILITY POS SYSTEM (GOLANG/REACT)	Hexagonal Backend (Golang): Implementation with Gorilla/Mux and PostgreSQL (SQLC), achieving a 50-70% reduction in RAM consumption vs. traditional ORMs. Security & RBAC: Granular access control design with Casbin, managing dynamic roles and adaptive policies. Modular Frontend: SPA with React + TypeScript, using Zustand for state management and React Query for caching. DevOps: CI/CD with Jenkins and deployment on AWS/AZURE/GCP/DigitalOcean via Nginx reverse proxy.		
➤ AI ARCHITECTURE & AUTONOMOUS AGENTS	RAG & API Pipelines: Scalable design on private data using on-premises LLMs (Ollama) and inference exposure using high-performance microservices in FastAPI. Autonomous Agents (Python): Agent development (LangChain, LangGraph) with "Tool Use" to orchestrate APIs and process documentation in real time.		
<b>Software Engineer</b>	<b>BLUECODE</b>	<b>Remote</b>	<b>11/2021 - 12/2023</b>
• Architected and led the data acquisition engine for Prime.Scout, a Delaware-based Price Intelligence startup. • Developed scraping bots for ecommerce using TypeScript/Node.js (with Axios, Fetch, Request) and Python/Golang (with native HTTP library), optimizing the extraction of product, price and catalog data. • Migrated and improved legacy infrastructure by replacing Puppeteer/Playwright with solutions based on HTTP Direct (Node.js+Go), reducing resource consumption by 90% and accelerating response time by 95%. • Implemented a scalable URL management system: from initial website crawling to structured data extraction (JSON/CSV), storing results in PostgreSQL databases with schema normalization. • Containerized bots with Docker to ensure portability, execution in cloud environments (AWS EC2) and Automatic scaling on demand. • Created a notification bot in Telegram (TypeScript/Node.js) for real-time monitoring, crash alerts and daily reports of extracted data. • Development of Internal Tools (React, Vue).			
<b>Software Developer</b>	<b>GLOBAL STREAMING SOLUTIONS</b>	<b>Remote</b>	<b>01/2018 - 11/2021</b>
• SaaS Development and Modernization (React, Vue.js & Node.js): Building and optimizing the frontend using React and Vue.js to manage complex interactions in real-time. Lifecycle management of SPA applications and timely support to base modules developed in Angular. • Web Scraping & Data Mining (Python/Django): Development of robust extraction pipelines (Selenium, Scrapy, BeautifulSoup, Requests) and data management dashboards in Django, collecting and structuring multimedia metadata on a large scale. • Migration from legacy static views to Next.js to modernize the frontend stack and facilitate content management.			

## Education

<b>Software Engineering</b>	<b>Technological University of Peru</b>	<b>Remote</b>	<b>Ongoing</b>
<b>Portfolio</b>			
• Portfolio: <a href="#">freddy.indevs.in</a>			
• API Hexagonal & CQRS   FastAPI, Docker, PostgreSQL	Advanced microservices architecture with separation of layers and design patterns. Focused on scalability and maintainability. <a href="https://github.com/RLFreddy/hexacqrs-starter">github.com/RLFreddy/hexacqrs-starter</a>		
• Epayco Virtual Wallet Simulation   NestJS, Vue.js, Microservices	A complete full-stack system with containerized microservices architecture and real-time transaction flow. <a href="https://github.com/RLFreddy/Epayco-wallet">github.com/RLFreddy/Epayco-wallet</a>		
• High Availability POS System   Golang, React, SQLC	Development of an optimized point of sale (POS) under hexagonal architecture to ensure low resource consumption and high concurrency. (Demo in local)		
• Advanced Scraping Motors   Python, Go, Node.js, Playwright	<ul style="list-style-type: none"><li><a href="https://drive.google.com/file/d/1u8vHHuXCseTaFKW5Z-BzWteJJ_KoMljG/view?usp=sharing">https://drive.google.com/file/d/1u8vHHuXCseTaFKW5Z-BzWteJJ_KoMljG/view?usp=sharing</a></li><li><a href="https://drive.google.com/file/d/1W2GWeLivyIG8g9yA4S9sMcf8JZ7F6-TW/view?usp=sharing">https://drive.google.com/file/d/1W2GWeLivyIG8g9yA4S9sMcf8JZ7F6-TW/view?usp=sharing</a></li></ul>		
• Proxy Tools	I developed tools such as a Proxy Checker (Express + React) and a Proxy Scraper (Flask + Vue), both deployed in Docker containers for demonstration purposes.		