






# 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

Software and AI Engineer	GLOBAL STREAMING SOLUTIONS	Remote	01/2024 - Now
<div>➤ <b>HIGH AVAILABILITY POS SYSTEM (GOLANG/REACT)</b></div> <div>◊ Hexagonal Backend (Golang): Implementation with Gorilla/Mux and PostgreSQL (SQLC), achieving a 50-70% reduction in RAM consumption vs. traditional ORMs.</div> <div>◊ Security &amp; RBAC: Granular access control design with Casbin, managing dynamic roles and adaptive policies.</div> <div>◊ Modular Frontend: SPA with React + TypeScript, using Zustand for state management and React Query for caching.</div> <div>◊ DevOps: CI/CD with Jenkins and deployment on AWS/AZURE/GCP/DigitalOcean via Nginx reverse proxy.</div> <div>➤ <b>AI ARCHITECTURE &amp; AUTONOMOUS AGENTS</b></div> <div>◊ RAG &amp; API Pipelines: Scalable design on private data using on-premises LLMs (Ollama) and inference exposure using high-performance microservices in FastAPI.</div> <div>◊ Autonomous Agents (Python): Agent development (LangChain, LangGraph) with "Tool Use" to orchestrate APIs and process documentation in real time.</div>			

Software Engineer	BLUECODE	Remote	11/2021 - 12/2023
<ul style="list-style-type: none"><li>• Architected and led the data acquisition engine for Prime.Scout, a Delaware-based Price Intelligence startup.</li><li>• 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.</li><li>• 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%.</li><li>• Implemented a scalable URL management system: from initial website crawling to structured data extraction (JSON/CSV), storing results in PostgreSQL databases with schema normalization.</li><li>• Containerized bots with Docker to ensure portability, execution in cloud environments (AWS EC2) and Automatic scaling on demand.</li><li>• Created a notification bot in Telegram (TypeScript/Node.js) for real-time monitoring, crash alerts and daily reports of extracted data.</li><li>• Development of Internal Tools (React, Vue).</li></ul>			

Software Developer	GLOBAL STREAMING SOLUTIONS	Remote	01/2018 - 11/2021
<ul style="list-style-type: none"><li>• SaaS Development and Modernization (React, Vue.js &amp; 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.</li><li>• Web Scraping &amp; 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.</li><li>• Migration from legacy static views to Next.js to modernize the frontend stack and facilitate content management.</li></ul>			

## Education

Software Engineering	Technological University of Peru	Remote	Ongoing
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## Portfolio

- **Portfolio:** [freddy.indevs.in](#)
- **API Hexagonal & CQRS | FastAPI, Docker, PostgreSQL**  
Advanced microservices architecture with separation of layers and design patterns. Focused on scalability and maintainability.  
[github.com/RLFreddy/hexacqrs-starter](#)
- **Epayco Virtual Wallet Simulation | NestJS, Vue.js, Microservices**  
A complete full-stack system with containerized microservices architecture and real-time transaction flow.  
[github.com/RLFreddy/Epayco-wallet](#)
- **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**
  - [https://drive.google.com/file/d/1u8vHHuXCseTaFKW5Z-BzWteJJ\\_KoMljG/view?usp=sharing](https://drive.google.com/file/d/1u8vHHuXCseTaFKW5Z-BzWteJJ_KoMljG/view?usp=sharing)
  - <https://drive.google.com/file/d/1W2GWeLivylG8g9yA4S9sMcf8JZ7F6-TW/view?usp=sharing>
- **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.