

Elmer Raúl Reyes Paiz

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PROFESSIONAL PROFILE

Systems Engineering student with hands-on experience in full-stack development, backend engineering, and infrastructure. I have designed and deployed applications and data pipelines using FastAPI, React, Docker, and Terraform, integrating REST APIs, CI/CD, and observability practices to solve real-world problems.

WORK EXPERIENCE

Biblioteca Dr. Manuel Wong López **Technical & Institutional Repository Support**

Alajuela, Costa Rica
February 2024-April 2026

- Managed the computer equipment, ensuring continuous availability for users.
- Monitored the institutional server, detecting service outages and executing the restart and health-check process to minimize downtime.
- Managed the admin panel of the institutional repository, uploading content, validating records, and extracting usage metrics from the system dashboards.
- Diagnosed repository incidents and communicated concrete solutions to the responsible staff, reducing reliance on external support by 60%.
- Trained Systems Engineering students in the use and administration of the repository processes and the computing area, improving the team's autonomy.

A&A Reliable Construction **Freelance Front-End Developer** - [Reliable Construction website](#)

Alajuela, Costa Rica
November-December 2025

- Designed the UX/UI of the corporate site in Figma, defining flows and components aligned with the company's identity.
- Developed the site in React and Next.js, incorporating custom iconography and a layout tailored to the a&a Reliable Construction brand.
- Integrated contact forms with reCAPTCHA v3 validation and automated email delivery via EmailJS connected to the corporate Gmail, eliminating manual lead handling.

Personal Project **Full Stack Developer** - ETL & Data Warehouse

Alajuela, Costa Rica
October-November 2025

- Designed and implemented an ETL pipeline with FastAPI and Workflows to feed a Data Warehouse in an automated way.
- Integrated Grafana, Metabase, and Amplitude for observability and analytics, and provisioned the infrastructure with Terraform and Docker.
- Configured a CI/CD pipeline with zero-downtime deployments, health checks, and automatic rollback on failures.
- Built a FastAPI backend following expressive RESTful API principles, with session and cookie handling and disconnect-tolerant WebSockets.
- Deployed the complete solution on a self-managed Hetzner server.

Personal Project
Full Stack Developer - Rescue Pets App

Alajuela, Costa Rica
January–March 2025

- Built a mobile pet adoption app in React Native (Expo), with user authentication handled via Supabase.
- Implemented a profile system that lets users post animals for adoption with photos, descriptions, and contact information.
- Integrated an interactive map with geolocation that displays the exact location of each animal based on user entered data.

Personal Project
Backend Developer – Student Enrollment API

Alajuela, Costa Rica
June 2025

- Built a REST API for managing students, courses, and enrollments using Express.js, Prisma, and PostgreSQL.
- Containerized the application with Docker to standardize the environment and speed up collaborative development among teammates.
- Documented the project with a comprehensive technical README (installation, endpoint examples, seed scripts, and environment variables) and published it as open source on GitHub.

EDUCATION

ADVENTIST UNIVERSITY OF CENTRAL AMERICA
Systems Engineering

Alajuela, Costa Rica
January 2024

SKILLS

- Backend & APIs: FastAPI, Express.js, REST, WebSockets
- Databases: PostgreSQL, Prisma ORM, ERD Modeling
- Frontend & Mobile: React, Next.js, React Native (Expo), Figma
- Infrastructure & DevOps: Docker, Terraform, CI/CD, Hetzner VPS
- Data & Observability: Metabase, Grafana K6, Amplitude
- Native Spanish & B1 English