

Erick Raul Pajares Balceda

Software Developer

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Professional Summary

Full-stack software developer with hands-on production experience and a strong track record building real-time, data-intensive systems. Self-taught foundation since age 15, now formalizing studies in Software Development at SENATI. I combine backend and frontend skills across Node.js, React, PostgreSQL, Redis, Leaflet, and more. I've led high-impact projects such as AI-enabled video surveillance, real-time radio tracking, and municipal process automation—delivering reliable, efficient, and results-oriented solutions.

Core Skills

Languages & Frameworks: JavaScript/TypeScript, Node.js, Express, React, PHP/Laravel (basic), C/C++, Java (intermediate), Assembly

Backend: REST APIs, WebSockets, JWT, API Keys, Sequelize, Payload CMS, node-cache

Frontend: React, Redux, MUI, Leaflet.js, Tailwind CSS, HTML5, CSS

Databases: PostgreSQL, SQL Server, MongoDB, Redis

Geo/Mapping: Turf.js, Google Maps API, Leaflet

DevOps & Deployment: Git, GitHub, PM2, Docker, Nginx, Linux, Windows Server

Video Surveillance / IoT: Axxon PSIM, Hikvision, Hytera, RTSP, ISAPI, Playwright, Puppeteer

Professional Experience

Full-Stack Analyst/Developer — Fravatel EIRL

Jul 2025 – Present

- OTP code service: TypeScript REST API (SOLID), Redis TTL & one-time invalidation, HMAC-SHA256 (no codes stored in plaintext), rate limiting, audit logging; multi-tenant with Payload CMS and MongoDB.
- File encryption/decryption for banking institutions: AES-256-GCM (scrypt + salt/iv/tag), on-the-fly ZIP streaming with backpressure, filename preservation via Content-Disposition; structured logs; PostgreSQL/Redis; web client with real-time progress.
- Outage alerts via push notifications: Mobile app with Expo/React Native (expo-notifications, EAS, FCM v1/APNs), web app in Vue 3, NestJS backend with ICMP/HTTP health checks; ExpoPushToken & push receipt management with automatic pruning of invalid tokens.

Coordinator — Communications & Video Surveillance Center (CECOM) — Municipalidad Distrital de San Juan de Lurigancho

Jan 2025 – Mar 2025

- District camera map (610 cameras): Centralized live control and monitoring (Hikvision AI) achieving 100% coverage and faster field response; improved operational efficiency by 30%.
- Bodycam management: Assignment, management, and control of bodycams for field units, boosting supervision and coordination—100% tracked units.

- Proactive camera health monitoring: ICMP, ISAPI, RTSP, and handshake checks for 99% network availability; 50% improvement in outside plant operations.
- Realtime District Observatory: Integrated weather, river flow, field incidents, server health, bodycams, and active cameras into live KPIs—45% higher responsiveness and shift efficiency.

FullStack Developer — Subgerencia de Serenazgo — Municipalidad Distrital de San Juan de Lurigancho

Aug 2024 – Dec 2024

- Integrated surveillance map (TETRA radios): Geolocation and safezone geofencing (Turf.js); reduced incident response times by 35%.
- Dolphin technology integration: Reverseengineered realtime radio positioning with automatic outofzone alerts; increased unit traceability by 30%.
- Facial recognition attendance: Attendance system using Axxon; automated receipts and RUC sheets—40% fewer registration errors and higher administrative efficiency.
- Digitalization of citations and fines: Endtoend workflow for acts/fines with realtime tracking; 35% faster processing and better transparency.
- Sports field reservation platform: Online booking eliminated inperson queues; 50% increase in reservations and improved citizen satisfaction.

CCTV Operator — Municipalidad Distrital de San Juan de Lurigancho

Jun 2024 – Aug 2024

- Live monitoring of the district using a highdefinition camera network; coordinated field personnel via radio for immediate incident response.
- Visual analytics for early incident detection, cutting emergency response time by 30%.
- Strengthened operations by improving comms between the monitoring center and field teams.

FullStack Analyst/Developer — Group Cadavra S.A.C.

Dec 2023 – May 2024

- Built fullstack apps with React and Node.js, aligning frontend and backend; performance optimizations reduced page load time by 40%.
- Designed RESTful services and DB integrations (PostgreSQL/MySQL) with secure data handling and automation of critical processes.
- Agile collaboration (Scrum) with designers and QA to accelerate feature delivery.
- Ongoing system diagnostics, architectural improvements, and mitigation of vulnerabilities, sustaining 99.9% service availability.
- Business impact: streamlined inventory management and customer experience for Medipharm (Group Cadavra).

Sales Team Coordinator — Royal Prestige (SelfEmployed)

Jan 2018 – Dec 2023

- Led and coached a highperformance sales team with ongoing training programs.
- Built data driven sales strategies, tracking KPIs to improve conversion efficiency.
- Personalized customer service models increased retention and longterm relationships.
- Delivered sustained growth through coordinated campaigns in a competitive market.

Education

- Software Development with AI — SENATI (Jan 2025 – In progress)
- Information Technology — Cibertec (Jun 2024 – Dec 2024)
- Web Development — Instituto Soy Henry (Feb 2024 – Jun 2024)
- B.S. in Animal Science — Universidad Nacional José Faustino Sánchez Carrión (Huacho, Lima, Peru)

Languages

- Spanish: Native
- English: Advanced (C1)

Featured Projects

Gestiona■te (2024)

End■to■end personnel management for the Subgerencia de Orden Público (serenazgo, enforcement, transport). Facial■recognition attendance, locador payments, and justification workflows.

Tech: Node.js, React, Redux, Express, MUI, Sequelize, PostgreSQL, Axxon PSIM, WebSockets, Multer

Live: gestionate.munisjl.gob.pe

Integrated Real■Time Surveillance Map (2024)

Live monitoring of on■foot, motorized, and mobile units; shows location, defines safe areas, and triggers alerts on zone exit.

Tech: Node.js, React, Redux, Express, MUI, Sequelize, PostgreSQL, Redis, Axxon PSIM, Socket.IO, Turf.js, Multer.js

Backend Repo: github.com/gunminiho/mapaintegral_back