

Erick Raul Pajares Balceda

Desarrollador de Software

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Professional Profile

Software developer with experience in real production systems and currently a Software Development student at SENATI. I started my journey in programming at the age of 15, and since 2023, I have been formally and practically undergoing a professional reconversion. I combine self-taught skills, technical education, and hands-on experience in both backend and frontend development using modern technologies such as Node.js, React, PostgreSQL, Leaflet, and Redis. I have led high-impact projects such as AI-powered video surveillance systems, real-time radio control, and municipal management automation. I specialize in creating efficient, automated, and results-driven solutions

🔧 Technical Skills

- ❖ **Languages and Frameworks:** JavaScript, Node.js, Express, React, PHP/Laravel (basic), TypeScript (intermediate), C/C++, Java (intermediate), ASM
- ❖ **Backend:** Node.js, Express, Sequelize, node-cache, REST API, WebSockets, JWT, API Keys
- ❖ **Frontend:** React, Redux, MUI, Leaflet.js, TailwindCSS, Bootstrap, MUI
- ❖ **Databases:** PostgreSQL, SQL Server, MongoDB, Redis
- ❖ **Geolocation:** Turf.js, Google Maps API, Leaflet
- ❖ **DevOps and Deployment:** Git, GitHub, PM2, Docker, Nginx, Linux, Windows Server
- ❖ **Video Surveillance / IoT:** Axxon PSIM, Hikvision, Hytera, RTSP, ISAPI, Playwright, Puppeteer
- ❖ **Academic Background:** Software Development program at SENATI (ongoing), Cibertec, Soy Henry Bootcamp

Featured Projects

Gestiona-te (2024)

A comprehensive management system for the personnel of the Public Order Submanagement, including security staff, inspection, and transportation. It automates attendance control using facial recognition, manages contractor payments, and monitors personnel justifications.

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

🌐 gestionate.munisjl.gob.pe

Integral Surveillance Map (2024)

A real-time surveillance platform for monitoring stationary, motorized, and mobile security personnel. It enables location tracking, establishes safe zones, and generates alerts if they leave their assigned area.

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

🔗 Backend Repository: https://github.com/gunminiho/mapaintegral_back

Professional Experience

Coordinator – Communications and Video Surveillance Center (CECOM)

Municipal District of San Juan de Lurigancho

📅 January 2025 – March 2025

- I. **Map of 610 Cameras:** I implemented a strategic map that integrated 610 cameras equipped with Hikvision's AI technology, achieving 100% control and real-time monitoring of field operations. This solution reduced response times and improved operational efficiency by 30%.
- II. **Bodycam Management System:** I developed an innovative system for the allocation, management, and control of bodycams for field units, which optimized operational coordination and supervision. With this solution, the tracking and control of deployed units increased by 100%.
- III. **Proactive Camera Monitoring:** I designed and implemented a monitoring system for camera status using ICMP, ISAPI, RTSP, and Handshake protocols, achieving 100% control over the video surveillance infrastructure. This solution enhanced external plant management efficiency by 50% and ensured 99% network availability.
- IV. **Real-Time District Observatory:** I led the development of a comprehensive observatory integrating critical data—including weather, river flow, field incidents, server status, bodycams, and active cameras—allowing for real-time KPI analysis for informed decision-making. This initiative increased response capacity and improved shift management efficiency by 45%.

➤ Development Coordinator – Serenazgo Submanagement

Municipal District of San Juan de Lurigancho



August 2024 – December 2024

- I. **Integral Surveillance Map:** I led the development of an interactive map for TETRA radios, implementing geolocation and critical area delimitation using Turf.js. The solution improved coverage and response times for security units, reducing intervention times by 35%.
- II. **Integration with Dolphin Technology:** Through reverse engineering, I integrated systems with Dolphin technology for real-time radio tracking, configuring automatic alerts for zone exits. This implementation optimized operational security and enhanced field surveillance, increasing unit traceability by 30%.
- III. **Facial Recognition Personnel Management System:** I designed and developed an attendance control system based on facial recognition technology using Axxon, and automated the generation of payment receipts and RUC records, achieving superior administrative efficiency and reducing registration errors by 40%.
- IV. **Digitization of Reports, Fines, and Infractions:** I implemented a comprehensive digital system for generating and managing reports, fines, and infractions, streamlining inspection processes and enabling real-time incident tracking. This digital advancement increased transparency and reduced management time by 35%.
- V. **Online Sports Court Booking Platform:** I developed an online platform for booking sports courts, eliminating the need for in-person procedures and facilitating citizen service. The solution improved access to municipal services by increasing reservations by 50% and significantly boosting user satisfaction.

➤ Surveillance Camera Operator

Municipal District of San Juan de Lurigancho




June 2024 – August 2024

- I. **Real-Time Monitoring and Coordination:** I conducted comprehensive district surveillance using a high-definition camera network, effectively coordinating field personnel via radio communication to respond immediately to any incident.
- II. **Proactive Incident Identification:** I implemented a visual analysis system for the early detection of incidents, enabling immediate activation of response protocols and reducing emergency intervention times by 30%.
- III. **Improvement in Operational Communication:** I contributed to enhancing coordination between the monitoring center and field teams by facilitating a constant and accurate flow of information, which increased crisis management efficiency and strengthened district security.


➤ Full Stack Web Developer Analyst

Group Cadavra S.A.C.

 December 2023 – May 2024

- **Full Stack Development with React and Node.js:** I designed, coded, and maintained comprehensive web applications, ensuring consistency between frontend and backend. I implemented scalable architectures and performance optimizations, reducing page load times by 40%.
- **API and Database Integration:** I created RESTful services and managed communications with databases (PostgreSQL/MySQL), ensuring information security and reliability while facilitating the automation of critical processes.
- **Team Collaboration and Agile Methodologies:** I worked closely with designers and QA under Scrum methodologies, improving team coordination and accelerating the delivery of key functionalities to users.
- **Maintenance and Continuous Improvement:** I performed periodic system diagnostics, proposing architectural improvements and mitigating potential vulnerabilities, which maintained service quality and availability at 99.9%.
- **Business Orientation:** I translated company needs into effective technological solutions, contributing to the growth and productivity of Medipharm (a part of Group Cadavra) through implementations that simplified inventory management and enhanced the customer experience.

➤ Sales Coordinator – Royal Prestige (Own Venture)

 January 2018 – December 2023

- **Team Leadership and Management:** I directed and motivated a high-performance sales team, implementing continuous training programs and personalized coaching to enhance commercial skills and meet established targets.
- **Commercial Strategy and Innovation:** I developed and implemented innovative sales strategies that increased revenues and market share. Through rigorous KPI analysis and tracking, I optimized processes and improved lead-to-customer conversion efficiency.
- **Personalized Customer Service and Loyalty:** I implemented customer service models tailored to individual needs, increasing customer loyalty and satisfaction, which resulted in long-term business relationships and strengthened brand reputation.
- **Impact on Results:** Through the implementation of commercial tactics and the coordination of sales campaigns, I drove business growth, consolidating the venture in a competitive market and achieving sustained results throughout my tenure.

Education

- Software Development with AI, Senati – Ongoing
- Information Technologies, Cibertec – June 2024 to January 2025
- Web Development, Instituto Soy Henry – February 2024 to June 2024
- Animal Science, Universidad Nacional José Faustino Sánchez Carrión – Huacho, Lima, Peru

Languages

- Spanish: Native
- English: C1 (Advanced)

Soft Skills

- Critical Thinking
- Leadership
- Organization and Team Management
- Collaborative Work
- Adaptability and Results Orientation
- Problem Solving & Debugging