

Johan Carlo Amador Egoavil

Full-Stack Development | Healthcare Interoperability

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Professional Profile

Informatics Engineering graduate from PUCP with experience in full-stack development, hospital systems and healthcare interoperability. At PUCP / GIDIS, I develop SIH.SALUS admissions workflows and an HL7 FHIR / IPS interoperability module for RENHICE. I deliver web platforms, APIs and internal systems from requirements to deployment, training and maintenance, including environments with limited connectivity.

Professional Experience

Software Developer – Health Systems

August 2025 – Present

PUCP / GIDIS – SIH.SALUS

Hybrid, Lima

- Development and implementation of the electronic health record system for Hospital Santa Clotilde with PUCP's Software Engineering Research and Development Group (GIDIS). Responsible for the admissions module and integration of healthcare interoperability standards.
- On-site deployment in August 2026 in Santa Clotilde, Napo River basin: admissions, triage, pharmacy, laboratory and outpatient consultation. Transported and installed the server and a UPS with the team in a hospital with unstable power and connectivity.
- Personally trained admissions staff, followed up on system use and delivered improvements after deployment.

Frontend Developer

June 2026 – Present

NexoDev – Contract

Remote

- Development of production web interfaces and integration with APIs and existing backend services.
- Remote collaboration on feature delivery, debugging and iterative product improvements.

Software Engineer (Freelance)

November 2024 – Present

Full Stack Developer – End-to-end project management

Lima, Perú

- Self-managed end-to-end delivery: requirements analysis, technical design, full-stack development, deployment on client VPS/hosting, client training, and ongoing maintenance.
- Development of Next.js frontends and PHP + MySQL backends/APIs for catalogs, admin panels, image uploads, simple authentication, and operational workflows.
- Iterative feedback cycles, bug fixes, performance optimization, and post-launch feature enhancements.

Selected client projects:

- **Grupo Sercom / Intranet** – B2B website and document portal with RUC-based access, PDF preview and private administration. Next.js, TypeScript, VPS, PM2.
- **Prosedain** – Industrial catalog, product administration and PDF quotation generation. Next.js, PHP, MySQL.
- **Iserma** – Industrial catalog with editable products, brands and categories. Next.js, React, Mantine, PHP, MySQL.
- **Automotriz Lévano ERP** – Private automotive business platform with authenticated team access. TypeScript, React, Next.js.
- **Nebu** – Real-time voice/video, AI integrations and online payments. Remix, NestJS, PostgreSQL, Docker, LiveKit.

Additional projects: Farmasalud Inversiones, MITS Perú, Academia Pásalo.

Healthcare Interoperability

Conectación IPS Perú 2025 – Technical participation representing Hospital Santa Clotilde and PUCP in clinical information exchange using international health standards.

Thesis

SIH.SALUS – Healthcare Interoperability Module

Pontificia Universidad Católica del Perú 2025 – 2026

- Interoperability module for OpenMRS integrated with RENHICE (Perú’s National Electronic Health Records Registry) using HL7 FHIR.
- Mapping of OpenMRS clinical data to FHIR resources and IPS bundles, with clinical summary submission and bidirectional queries/imports.
- Persistent queues, deferred processing, retries and monitoring for intermittent connectivity; integration testing with HAPI FHIR.

OpenMRS 3 · Java · HL7 FHIR · Clinical interoperability  My interoperability module

Academic Projects

Thesis Management System March 2025 – July 2025

React · Spring Boot · PostgreSQL
Capstone project with 38 team members. Developed the review module and GoWinston plagiarism detection integration; contributed to CI/CD, quality control and code reviews.

Logistics Operations Planning System August 2024 – December 2024

Java · React
Delivery route planning with constraints and blockages, a Java optimization engine and modular React interface.

Academic Tutoring Management System March 2024 – July 2024

React · ASP.NET
University tutoring platform with schedules, notifications and session management, developed using Scrum.

Banking Risk Management System August 2023 – December 2023

Java · C#
Academic banking risk prototype with registration, analysis, hierarchy and filtered reporting modules.

Education

Informatics Engineering (Coursework Completed) 2020 – 2026

Pontificia Universidad Católica del Perú (PUCP) Lima, Perú

Full Stack Developer Path 2022 – 2023

Platzi Online

Software Development 2025

Coursera Online

Technical Skills

Languages:	Java, JavaScript, TypeScript, PHP, C/C++, C#, Python, SQL
Frameworks:	React, Next.js, NestJS, Spring Boot, ASP.NET, Express.js, Remix, Mantine
Databases:	PostgreSQL, MySQL, SQL Server, Oracle SQL, MongoDB, Supabase
DevOps & Cloud:	Docker, CI/CD, VPS, PM2, Vercel, cPanel, AWS (RDS), Namecheap, Cloudflare, Linux, Git/GitHub
Tools:	Postman, Jira, VS Code, Notion, Bizagi (BPMN)
Healthcare:	HL7 FHIR, HL7 v2, IPS, OpenMRS, HAPI FHIR, clinical data mapping
APIs & Integration:	REST APIs, GraphQL, Prisma, NextAuth, Cloudinary, PDF generation
Interface:	Tailwind CSS, shadcn/ui
Methodologies:	Scrum, agile development, technical audit, continuous deployment, version control, collaborative work, technical documentation

Languages

Spanish: Native
English: Upper-Intermediate (B2 – FCE Cambridge)