

Javier Ramos Humeres

Software Engineer | Full-Stack & AI-Augmented Development

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Full-stack software engineer with **4+ years** building production systems end to end, from requirements and architecture to backend services, frontend, and cloud. Physics graduate who pairs strong fundamentals with an **AI-augmented workflow**: ships production code daily with AI coding agents and builds custom agent tooling (Claude Code skills, MCP servers, automated issue-to-PR pipelines) adopted by the team. Core stack: Node.js / NestJS, TypeScript, React / Next.js, SQL, and AWS.

PROFESSIONAL EXPERIENCE

Software Engineer - TeselaGen 08/2025 – Present | Santiago, Chile (Hybrid)

- Led a **full legacy-API migration to a modern NestJS clean-architecture (v2) backend in Typescript**, modernizing the services that power TeselaGen's consumer-facing biotech tools.
- Build backend services and React / Next.js frontend features across multiple consumer tools, including the data and integration layers that serve the AI copilot.
- Built an **agentic-development toolchain**: custom Claude Code skills, MCP tools and servers, and automated ticket-to-PR workflows that speed up delivery across the team.
- Own authentication, security, and infrastructure concerns across the v2 services.

Backend Developer - Pinflag 05/2022 – 08/2025 | Santiago, Chile


- Built end-to-end **payment integrations (Klap, Transbank)**: checkout flows, confirmation webhooks, reconciliation, refunds, and failure recovery.
- Developed order-management and fulfillment automation across the full order lifecycle for e-commerce clients.
- Designed and built a **large-dataset analytics backend** and its Chart.js dashboard frontend, with reporting and Excel / CSV data exports.
- Shipped customer-notification integrations (WhatsApp API) on Node.js / Express and AWS (S3, SES, SNS, Lambda).

PROJECTS

Isometric City-Builder (Unity, C#) - Personal Project

An end-to-end testbed for agentic development. Built a project-scoped **MCP server, multi-agent and PRD-driven workflows**, and a library of custom Claude Code skills and subagents that drive automated implement-and-verify loops from written specs.

EDUCATION

Diploma in Software Engineering, Universidad de Chile  04/2025 – 08/2025 | Santiago, Chile

B.Sc Physics, Pontificia Universidad Católica de Chile  2005 – 2010 | Santiago, Chile

Full Stack Web Development, 4Geeks Academy  2021 – 2022 | Santiago, Chile

PUBLICATIONS

Sound Synthesis of a Gaussian Quantum Particle in an Infinite Square Well., *Computer Music Journal* (MIT Press) 2014

Peer-reviewed; physics-based sound synthesis.

SKILLS

Languages: JavaScript, TypeScript, Python, C#, SQL, **Backend:** Node.js, NestJS, Express, REST APIs, authentication & encryption, serverless (AWS Lambda), Sequelize, TypeORM, **Databases:** PostgreSQL, MongoDB, **Frontend:** React (Hooks), Next.js, Tailwind CSS, Chart.js, **Testing:** Jest, **Cloud & DevOps:** AWS (S3, SES, SNS, CloudWatch, Lambda), GCP, GitHub Actions, Heroku, Serverless Framework, **CI/CD:** Github/Heroku/AWS, **AI & Agentic Dev:** Claude Code (desktop & CLI), MCP tool and server authoring, agent skill & workflow design, Cursor, GitHub Copilot, **Specialized:** Payment gateways (Klap, Transbank), e-commerce (Shopify, WooCommerce), order management, WhatsApp API

LANGUAGES

Spanish: Native • **English:** Fluent • **Portuguese:** Conversational