

Ignacio Sánchez Greppi

Full Stack Developer | AI Automation

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PROFESSIONAL SUMMARY

Full Stack Developer specializing in web development and AI automation. Since 2023, I have built websites and applications for freelance clients and shipped them to production with Node.js, TypeScript, React and Next.js. I developed SmartOps Agent, an AI agent for WhatsApp built with Claude and n8n and backed by 2,100+ automated tests and CI/CD, and applied that experience to an automation project for a company through Workana. I am looking for a long-term role where I can contribute full stack development with a focus on quality, security and results.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, SQL, HTML5, CSS3

Frontend: React, Next.js, Astro, Vite, Tailwind CSS, shadcn/ui, TanStack Query, SASS, Bootstrap

Backend: Node.js, Express, REST APIs, GraphQL, Prisma, Zod, JWT, Passport.js, Socket.io

AI & Automation: Claude API (Anthropic SDK), AI agents, n8n, structured outputs, prompt injection defense, Whisper, WhatsApp Business Cloud API, Model Context Protocol (MCP), Claude Code

Databases: PostgreSQL, MongoDB, MySQL, Firebase

Testing: Vitest, Playwright, Jest, Mocha, Chai, Supertest, Postman, mutation testing, accessibility testing with axe

DevOps: Docker, Docker Compose, GitHub Actions (CI/CD), Git, GitHub, Vercel, Netlify, Oracle Cloud, Caddy

Methods & Design: Scrum, Kanban, Jira, Trello, Figma, brand identity

FEATURED PROJECT

SmartOps Agent

2026

AI agent for businesses that run on WhatsApp · Personal project, built solo

[Demo: smartops-demo.duckdns.org](https://demo.smartops-demo.duckdns.org) | [Code: github.com/sanchezign/smartops-agent](https://github.com/sanchezign/smartops-agent)

- Designed and built a complete platform that reads price lists, orders and questions sent as text, photos, PDFs, spreadsheets and voice notes, keeps the product catalog up to date with price history, and sends the team only what needs action.
- Orchestrated 3 agents with n8n and Claude (structured outputs validated with Zod), with human review for uncertain data and human takeover of any chat at any time.
- Reliable architecture: signed webhooks persisted before responding, transactional outbox, queues with retries and dead letters (pg-boss), and idempotent steps so retries never duplicate data.
- AI and application security: documents are treated as data, not instructions; a real-model evaluation passed 8 of 8 cases (6 prompt injection attacks and 2 controls). Argon2id, rotating sessions with reuse detection, CSRF protection and roles.
- Quality: 2,100+ automated tests (unit, HTTP, against a real PostgreSQL database, and Playwright E2E on desktop, Android and iPhone), 80% mutation score, and a GitHub Actions CI/CD pipeline with a coverage gate, image scanning and multi-architecture Docker images.
- Cost control: a deterministic pre-filter avoids unnecessary AI calls and spend caps are checked before every call; total AI spend during development was about USD 0.32. Public demo on Oracle Cloud with Docker Compose at zero cost; bilingual admin panel meeting WCAG 2.1 AA.

Stack: Node.js, Express, TypeScript, PostgreSQL, Prisma, pg-boss, Claude API, n8n, Next.js, React, Tailwind CSS, Vitest, Playwright, Docker, GitHub Actions

PROFESSIONAL EXPERIENCE

Freelance Full Stack Developer | Direct clients and Workana

2023 - Present

Montevideo, Uruguay · Remote

- Workana (current):** Developed an automation project for a company using the WhatsApp Business API and n8n, with an approach similar to SmartOps Agent.
- Pura Vida Huertas (2025):** Delivered the brand's rebranding as a full stack website, covering design, frontend, backend and production deployment, with a product catalog, contact form and content management (React, Node.js, MongoDB, Tailwind CSS).
- Pura Vida (2024):** Led the website for this gardening and landscaping brand from start to finish: UI design, layout, development and deployment, with a focus on brand identity and user experience.
- Golden Pets (2023):** First client: responsive website in production with a product catalog and social media integration aligned with the brand (React, JavaScript, CSS).

- **Maintenance:** Provided post-launch support and maintenance to every client.

Multimedia Designer

Before 2023

Montevideo, Uruguay

- Designed logos and visual identities for brands; I now apply this design background to the interfaces and brand identity of every site I build.

OTHER PROJECTS

- **Feria Artesanal:** MERN marketplace with a product catalog, JWT authentication, shopping cart and admin panel. *React, Node.js, Express, MongoDB, JWT*
- **Testing & Docker API:** REST API with JWT, 32 functional tests, Swagger documentation and an optimized Alpine-based Docker image. *Node.js, Express, Mocha, Docker*
- **Productos Realtime:** Product management app with instant updates over WebSockets, without page reloads. *Node.js, Express, MongoDB, Socket.io*

More projects, with code and demos, at www.sanchezign.dev

EDUCATION

Full Stack Developer Program | Coderhouse

2024 - 2026

Top 10 distinction: ranked among the 10 best students. 6 courses: Web Development, JavaScript, React JS, Backend I (Advanced Development), Backend II (Design and Architecture) and Backend III (Testing and Scalability).

University Studies (2 years completed) | Universidad ORT Uruguay

1 year of Systems Engineering and 1 year of a Bachelor's in Multimedia.

CERTIFICATIONS

- **Claude Academy (Anthropic), 2026:** Claude Code 101 · Claude Code in Action · Model Context Protocol: Advanced Topics
- **Coderhouse, 2026:** Software Development Lifecycle and Test Planning · Agile Methodology: Intensive Course · Advanced Passport: Enterprise-Grade Authentication · Workflows as Code: Git and Version Control · Data Migrations and Querying with Entity Framework (SQL, migrations)
- **Agesic, 2025:** Cybersecurity Framework v4.2

LANGUAGES

Spanish: Native | **English:** Upper-intermediate (B2)