

Henry Quel.

Full-stack developer

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SUMMARY

Full-stack developer with a strong base in compilers and systems. I build complete products with TypeScript, React and Next.js, C# and .NET, and PostgreSQL. I write the spec and the tests before the code, and I publish what I build. Today I develop production software for a national pharmacy chain, and I am looking for a remote full-stack role.

EXPERIENCE

Full-stack developer (contract) · Farmacias Galeno Aug 2026 – present

- Part of the team building the company's official sales mobile app, in React Native with GraphQL.
- Built internal business tools end to end, from the database to production, with a .NET 8 API and a React front end.

Stack: React Native, GraphQL, C# .NET 8, React, Vite, SQL Server

Lab tutor · Organización Computacional, University of San Carlos 2026

- Taught the lab of Computer Organization (Organización Computacional): wrote diagnostic exams, original guides and official material.
- One-to-one tutoring to improve understanding and the pass rate.

PROJECTS

OakLand oakland-compiler.vercel.app

A programming language with an interpreter, a static type checker and a compiler to WebAssembly (own binary encoder, no toolchain), and a page that shows the source beside the module it became. 1,600+ tests, including a generator of programs that checks both modes agree and eight deliberately broken compilers that it must catch. Compiled programs ran 18–358× faster in my benchmarks.

Stack: TypeScript, WebAssembly, React, Playwright

JobHuntly job-huntly-smoky.vercel.app

An interview notebook: prepare each round, debrief right after, see the funnel of a search and compare offers. .NET 8 API, PostgreSQL on Neon, Next.js, AI (Grog) that only drafts. Deployed on Fly.io and Vercel.

Stack: C# .NET 8, EF Core, PostgreSQL, Next.js

BugLab bug-lab.vercel.app

A free trainer that teaches beginners to read broken Python: predict, locate, explain, fix. Python runs in the browser with Pyodide; no server or account. 177 unit and 87 end-to-end tests with accessibility checks.

Stack: Next.js, TypeScript, Pyodide, Playwright

Rung rung-delta.vercel.app

Twelve React exercises in an in-browser editor. Code decides pass or fail with 81 automated checks; an AI model only explains the result.

Stack: Next.js, React, Sandpack, Grog

SKILLS

Languages	TypeScript, C#, SQL (T-SQL), C, C++, Python
Back end and data	.NET 8 / ASP.NET, Entity Framework, GraphQL, Node.js, PostgreSQL, SQL Server, MongoDB, MySQL
Front end and mobile	React, Next.js, React Native, Vite, Tailwind CSS
Tools and cloud	Docker, AWS, Vercel, Fly.io, Supabase, Git and GitHub Actions
Quality	Vitest, Playwright, axe, spec-first development, differential and fuzz testing

EDUCATION

B.Eng. in Computer Science and Systems · University of San Carlos of Guatemala (USAC) In progress, 10th semester

Languages: Spanish (native), English (C1 Advanced)

Certificate: EF SET English Certificate, 62/100 (C1 Advanced), 30 Jul 2026. cert.efset.org/4LRs3z