

Ricardo Cuartas

Software Engineer

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I'm passionate about building software products. I have 4+ years solving real problems with web, mobile and desktop solutions, always thinking about speed, with a mobile-first and offline-first approach. My day-to-day stack is React, Angular, Next.js and Node.js, and I'm comfortable managing cloud infrastructure with Azure, Docker and IaC. I'm currently moving into agentic environments to keep building products end to end.

Skills

Languages: TypeScript, JavaScript, Python, PHP, SQL **Frameworks:** Next.js, React, Angular, Node.js **Cloud & DevOps:** Azure, AKS, AWS, Terraform, Docker, Kubernetes, Jenkins, Azure DevOps, GitHub Actions, Git **AI:** LLMs, MCP, Skills, AI-powered IDEs, Claude Code, GitHub Copilot, SDKs, SDD (Spec-Driven Development) **Databases:** PostgreSQL, MongoDB, MySQL **Testing:** Jest, Cypress, Karma **Tools & CMS:** Entra ID, New Relic, WordPress

Experience

Software Engineer (Semi-Senior) — NTT DATA (Porvenir S.A.)

Oct 2024 – Present

- Design and implementation of the cloud architecture based on micro-frontends for Porvenir's Pension Reform application.
- Development of financial, security, logging, reporting and query modules for managing balances, transactions and enrollment.
- Identity and authentication management with Microsoft Entra ID.
- Development of reusable CI/CD pipelines in Jenkins with Terraform modules for automated provisioning of resources on AKS.
- Development of Docker containers for efficient deployments and system scalability.
- Monitoring and performance optimization of the application with New Relic.
- Development of scalable components and solutions in collaboration with cross-functional teams, applying agile practices to iterate and continuously improve deliverables.
- Technical guidance to the frontend team (3 developers), resolving questions and guiding implementation decisions.

Software Engineer (Semi-Senior) — NTT DATA (Ecopetrol S.A.)

Nov 2023 – Sept 2024

- Design and implementation of AVE (Ecopetrol Travel Assistant), an internal platform to manage corporate employee travel: requests, travel policies and access control, with Next.js and TypeScript, for Ecopetrol's corporate system.
- Development of a budget control module with real-time expense tracking for 12 corporate vice-presidencies.
- Implementation of CI/CD pipelines in Azure DevOps with automated testing and deployment to Azure App Service (development, QA and production).

Software Engineer (Semi-Senior) — NTT DATA Colombia S.A.S.

2023 – Present · Knowledge cell

- Design and development of an AI agent packaged as a GitHub Action that validates microservices and automatically decides whether to block a merge, combining deterministic engines with LLMs to ensure traceability and prevent prompt injection.
- Implementation of Spec-Driven Development workflows (Spec Kit) so AI agents work with context, rules and quality criteria, reducing ambiguity, rework and inconsistencies in enterprise projects.

Frontend Developer (Junior) — Bia Energy S.A.S.

Mar 2023 – Dec 2023

- Development and implementation of the EMS (Energy Management System), enabling users to reduce their energy consumption by up to 18%.
- Development of Bia Entropy, a design system library with 40+ components based on atomic design principles.
- Full integration of field workflows for electricians.
- Design and launch of the Olibia MVP, an internal back-office that unifies client management, billing and operations in a single platform.
- Implementation of frontend solutions with React and Next.js, covering everything from system architecture to development and code review.

Frontend Developer — Salallena.com

Feb 2022 – Mar 2023

- Maintenance and custom development of WordPress plugins and themes (PHP, MySQL) for the Salallena platform.
- Complete migration of the platform from a LAMP stack (PHP, MySQL) to Next.js, TypeScript, Go and Python, reaching 90+ on Lighthouse.
- Definition of the tech stack and frontend architecture for a platform with 50K+ monthly visitors, optimizing the initial bundle through code splitting and dynamic imports.
- Development of a UI component library with 30+ components aligned with the product's design system.

Education & Certifications

Microsoft Certified: Azure Fundamentals (AZ-900) · 2025

Full Stack Web Development — Henry Bootcamp · 2023

Associate Degree in Administration — Servicio Nacional de Aprendizaje (SENA) · 2018

Student — Universidad Nacional de Colombia · 2020 – Present