

Erick Barcelos

Software Engineer

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[GitHub](#) | [Portfolio](#) | [LinkedIn](#)

Education

University of São Paulo (USP) — #1 QS Latin America & The Caribbean Ranking
B.Sc. in Information Systems (Expected graduation: Jul 2026)

Skills

Programming Languages: JavaScript, TypeScript, C, Python, C#

Frameworks and Tools: React, React Native, Next.js, Node.js, MongoDB, PostgreSQL, AWS, Git

Languages: Portuguese (Native), English (Professional Working Proficiency)

Experience

BTG Pactual — Latin America's Leading Investment Bank
IT Assistant (May 2025 – Present)

- Delivered a complete **FX Swap product**, including pricing algorithms and full integration with internal trading systems.
- Developed **two-way operation flow for NDF and Spot contracts**, integrating back-end pricing logic with front-end price visualization and execution.
- Integrated new features into the architecture, ensuring performance and scalability.

Software Engineer Intern (May 2023 – May 2025)

- Migrated the **FX module** from monolithic to **SOA**, improving scalability and performance.
- Built high-performance **.NET services** for FX operations, integrated with trading systems.
- Modernized legacy systems into scalable services.

Stealth Startup — Applicant Tracking System
Software Engineer Intern (Feb 2023 – May 2023)

- Built **50% of the MVP front-end** with **React/Next.js**, implementing SSR and SPA.
- Created a configurable **site builder** for client static pages.
- Prototyped in **Figma** and worked directly with founders on UX/UI.

ICMC Júnior — USP Junior Enterprise

- *Full Stack Developer* (Feb 2021 – Jan 2023) — Built an air-conditioning management app (**React Native, Node.js, MongoDB**).
- *Sales Consultant* (Feb 2021 – Jan 2022) — Qualified leads, assessed needs, supported proposals.

Projects

Dost — Founder of an e-commerce platform for a clothing store, built with **Node.js, Next.js, MongoDB**, and **AWS**.

Polterware — Personal software studio focused on creating and showcasing independent projects.

Portfolio — Built in **Next.js** (microfrontend) to showcase projects.