

# Erick Barcelos

Software Engineer

(16) 99731-4593   [erickbarcelosdev@gmail.com](mailto:erickbarcelosdev@gmail.com)

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

---

## Education

### University of São Paulo

*Bachelor of Science in Information Systems* (2019 - 2025)

Ranked **#1** in QS Latin America & The Caribbean Ranking

## Skills

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

**Tools & Frameworks:** React, React Native, Next.js, MongoDB, PostgreSQL, Git

**Languages:** Portuguese (Fluent), English (Intermediate)

## Experience

### BTG Pactual — Latin America's Leading Investment Bank

*IT Assistant (Full-time)* (May 2025 – Present)

*Software Engineer Intern* (May 2023 – May 2025)

- Spearheaded the **refactoring of the Foreign Exchange (FX) module** in the **BSM (Bank Sales Management) system**, adopting a **Service-Oriented Architecture (SOA)** to enhance scalability and modularity.
- Operated with **minimal supervision**, taking ownership of critical design decisions and ensuring high-quality implementations aligned with business needs.
- Refactored **80% of the legacy FX codebase**, reducing a core class from **10,000 to 4,000 lines**, significantly improving maintainability, testability, and performance.
- Developed and optimized services within the **.NET ecosystem**, ensuring seamless integration and efficient execution of FX-related operations.
- Collaborated with cross-functional teams to modernize legacy code, successfully transitioning from monolithic structures to **scalable, reusable services**.

### University of São Paulo — Undergraduate Research in Web

*Thesis Analytics Research Project* (Nov 2022 – Aug 2023)

- Developed an internal USP app for **contextual thesis search** using **language models** and **Apache Solr**.
- Implemented front-end tools to aid users in **thesis search and keyword analysis**.

## Projects

### dost

E-commerce website for **Dost Clothing Store**, developed using **Node.js**, **Next.js**, **MongoDB**, and **AWS** to ensure scalability and efficiency.

### Portfolio

Developed with **Next.js** with a microfrontend architecture, my portfolio showcases my **projects and skills** in an interactive way.

### polterware

Institutional website for **Polterware**, a software studio dedicated to showcasing personal and professional projects.