

# Tarcísio Girolardo

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Senior Software Engineer

*I'm a senior software engineer with over 6 years of experience across several types of business. Focused on React and it's ecosystem. Experienced in unit testing, React rewriting and refactoring apps and frontend performance. I'm also like to study new techs like Rust and Elixir. In my free time I like to spent time with my dog, family and friends*

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## Employment

July 2022 – **Spocket**, Frontend Engineer, Canada - Remote.

- Present
- Working as Frontend Engineer using React and it's ecosystem (CRA, Next.js, using ES6+, React Hooks, React Query, Redux, Context API, Jest, RTL and our design system)
  - Maintained overall codebase, keeping all libraries updated
  - Developing new features on our core app, following company's code standards and best practices. iterated through SCRUM from the board using Zenhub, Jira and Monday to manage
  - Refactoring old components to ES6+ (class components to functional components).
  - Created unit tests guide to help the team.
  - Developed new unit tests and improved the unit test percentage
  - Implemented a new CI/CD pipeline using Github Actions, AWS S3 and Cloudfront
  - Actively involved in a Django web app using React as frontend
  - Working in side projects using Next.js for our suppliers

April 2021 – **Dasa**, Software Engineer, São Paulo - Remote.

- July 2022
- Worked as Frontend Engineer with React (using ES6+, React Hooks, Context API, React Testing Library and Ant Design).
  - Developed new features on a genomic tracking application and fixed bugs in this same app, iterated through SCRUM from the board using Jira.
  - Refactored old components to ES6+(class components to functional components), improving the DX of our design system
  - Created a code standard based on the best practices community
  - Created new unit tests and improved the test coverage of the codebase to 80% (company standards)
  - Improved the CI/CD pipeline using Jenkins reducing problems and time on processing (30% decreased)
  - Collaborated a new Bioinformatics app, using vanilla Python and Cloud Functions from GCP
  - Applied DDD(Domain Driven Design) approach to promote more maintainable and evolvable code

- August 2020 **Softwrap**, *Full Stack Engineer*, São Paulo - Remote.
- April 2021
- Worked with React and React Native, Node.js, Firebase and Docker
  - I was responsible to coordinate a specific team for the development of a hybrid application using React Native and Firebase for meal tickets from a disclosed company
  - Led a team of 3 developers
  - Helped and taught the less skilled developers
  - Created a pixel perfect React Native application for accountability of accounting firms
- February 2020 – June 2020 **SmartEnvios**, *Full Stack Engineer*, Ribeirão Preto.
- Worked as Full Stack Engineer with React, Gatsby, TailwindCSS, Node.js, PostgreSQL, MongoDB and Docker
  - Created company's website using Gatsby and TailwindCSS
  - Developed crawlers using Node.js, Puppeteer and Cheerio for scraping and crawling.
  - Deployed on LightSail, uploading the exchange data to S3 and registering all operations in PostgreSQL.
  - The monitoring process was done using PM2 and the deploying of this related service.
- January 2018 **Freelance**, *Full Stack Developer*, Ribeirão Preto - Remote.
- July 2020
- Independently developed diverse institutional websites and landing pages.
  - Utilizing HTML5 and CSS3, also with a little bit vanilla Javascript and PHP.
  - Implemented jQuery and Bootstrap for responsive and visually appealing designs.
  - Customized solutions based on client needs, delivering tailored web applications.
  - Managed deployment using cPanel, SSH, rsync, and FTP

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## Education

2012 – 2020 **BSc in Biomedical Informatics**, *Universidade de São Paulo*, Ribeirão Preto, São Paulo, Brazil.

- During my BSc in biomedical informatics I worked as a intern researcher in bioinformatics
- Gained expertise in data analysis using R, more specifically ggplot2, tidyr, dplyr, bioconductor packages (like limma and GEOQuery), and the creation of dashboards using Shiny.
- Strengthened my Linux and shellscript core using to manage virtual machines and administrate a local server from the lab.
- Also had classes such as Algorithm and Data Structures, Object Orient Programming, Databases and SQL, Machine Learning, Operating Systems and Distributed Systems.
- Learn the basics of C, C++, Java and R.

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## Languages

**Portuguese.**

- Native speaker

**English, C1/C2.**

- Advanced

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## Skills

**Javascript, Technology.**

- My native programming language. My first contact was in 2013 but started to work a few years after this.
- I've been working with for over 6 years. I've been handling it in the front-end with React, using styled-components, Ant Design, TailwindCSS for stylization
- For state management using Context API, Redux, Redux Toolkit (RTK), Zustand.
- Used React Query from Tanstack also for asynchronous state management.
- Using axios and fetch API for consuming different backends
- For unit testing using React Testing Library (RTL) and Jest
- I've been working with Next.js using SSR and ISR
- Gatsby for blog and SSG projects.
- I've been using Node.js for backend with Express, NestJS and Fastify, just for fun and learning purposes
- I created scrapers and crawlers using Puppeteer and Cheerio.
- Following ES6+ best practices always.

**Typescript.**

- Using advanced features from Typescript like type narrowing
- Using Zod for schema validation
- Using Prisma for handling with databases (used with Next.js, NestJS and Fastify)

**Python.**

- Used Python for backends and webscraping
- On backends used to work with Django
- Also used vanilla Python for a creation of an entire project

**Rust.**

- One of my side languages to create side and personal projects
- Using tokio and frameworks as actix-web and axum
- Using ORMs sqlx and diesel

**Elixir.**

- Side languages for side projects
- Using Phoenix to create APIs and LiveView for fullstack projects.
- Handling with databases relational and non relation using Ecto.
- Using the tools for code analysis: credo and dialyxir.

**HTML/CSS.**

- I am skilled in HTML/CSS and have a particular interest in creating semantic and accessible web applications, following the a11y guidelines.
- Experinced working with CSS and applied the BEM methodology to improve code organization and maintainability

**R.**

- Using with Bioconductor packages as limma and GEOQuery.
- Data wrangling and visualization using ggplot2, tidyr, dplyr
- Integrations with relational and non-relational databases.
- Used R, Rmarkdown, knitr and LaTeX to generate this CV

**DevOps.**

- Leveraging Docker using Dockerfile and docker-compose to streamline the creation and management of containerized applications
- Continuous integration and continuous deploy with Jenkins, CircleCI, Github Actions.
- Cloudflare, Netlify and Vercel for personal projects.
- SonarQube for rating code quality and Fortify to enforce code security.
- Working with AWS - EC2, S3, Cloudfront, LightSail, Amplify
- Learning Terraform and Ansible

**Databases.**

- Relational such as PostgreSQL
- Non-relational such as MongoDB
- Worked with Firebase in some projects and Supabase for personal projects