

Gil Barbara

Software Engineer

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Software engineer with a track record of delivering scalable systems and mentoring engineering teams. Skilled at blending technical innovation, AI integration, and design system development to build reliable, user-focused solutions. Created 30+ open-source libraries, generating 2.56M+ weekly downloads.

Experience

Zenhub

Senior Front-end Engineer

09/2022 - 09/2023 — 1 yr

- Contributed to critical features during a re-platforming process, increasing potential customer growth by 20% by enabling access without GitHub accounts. Completed work two months ahead of schedule.
- Built an AI-powered issue tagging system and feature exploration platform, improving development efficiency by 50% and reducing iteration cycles during project planning.
- Refactored reusable code into modular monorepo packages, cutting code duplication by 10% and reducing testing time by 20%, enhancing the developer experience.

Project management

React

TypeScript

GraphQL

AI & ML

Design system

Cross-Team Collaboration

INTERA

Tech Lead

03/2021 - 04/2022 — 1 yr 2 mos

- Orchestrated the development of a scalable multi-tenant SaaS platform using serverless architecture, supporting unlimited tenants. Collaborated with stakeholders to align technical requirements with business goals and deliver a robust, scalable solution.
- Built a web app and Chrome extension with React, integrating with LinkedIn to streamline hiring processes. The extension provided job needs, candidate statuses, and recruitment

progress, achieving 100% adoption and highly positive feedback for improving workflows.

- Refactored the microservices system to TypeScript, increasing code coverage by 60% and accelerating development cycles by 35%. Mentored intermediate-level developers through pair programming and code reviews, fostering team growth and skill development.

HR Tech

AWS

Serverless

Node.js

React

TypeScript

Design system

Browser extension

AMARO

Tech Lead Front-end

09/2016 - 11/2020 – 4 yrs 3 mos

- Created a React PWA, improving load times by 300% and navigation speed by 800%. Partnered with the CTO and CEO to drive a 250% increase in organic traffic and 300% growth in social media sharing within the first year.
- Integrated a headless CMS, enabling seamless content updates and reducing production time by 50%. Collaborated with Content, Design, Marketing, and CX teams to empower autonomous publishing.
- Migrated the codebase to TypeScript, reducing bugs by 80% and accelerating development by 35%. Planned the transition to Next.js, projected to improve load times by 300% and reduce costs by removing third-party SEO services.

E-Commerce

React

Next.js

TypeScript

CMS Integration

Design system

SEO

Cross-Team Collaboration

Vérios Investimentos

Front-end Developer

12/2014 - 08/2016 – 1 yr 9 mos

- Built Brazil's first robo-advisor app with React, Flux, D3, and Web Workers, automating investment decisions based on user profiles (e.g., conservative, risky). Designed a seamless onboarding process that achieved a 20% conversion rate, enabling users to engage with algorithm-driven investment insights.
- Migrated R algorithms to portable JavaScript, supporting real-time data processing across devices and the cloud, improving accessibility for all users.
- Developed a custom WordPress theme with optimized performance and dynamic comparison pages. Empowered the content team to update autonomously, driving a 250% increase in account creation in the first week and enabling A/B testing and content optimization.

Fintech

React

Flux

D3

Web Workers

Data Visualization

Algorithm-Driven Insights

Kollektiv

Full-stack developer

07/2008 - 12/2018 – 10 yrs 6 mos

Independent consulting alongside primary roles.

- Delivered 40+ tailored projects, including websites, web apps, and mobile apps for clients in the audio/video, art, and music industries. Created interactive tools like a Twitter-powered mosaic for a rap artist's release and an editable video tool, boosting engagement and brand visibility.
- Integrated CMS platforms like WordPress and Contentful, enabling customizable content creation. Streamlined workflows, reduced production times, and eliminated developer dependency, empowering clients to publish independently.
- Implemented redesigns and optimizations that increased traffic and conversions by up to 1000%, growing user bases by 4000% and customer acquisition by 500% for key clients.

Creative industries

React

Angular

Backbone.js

Wordpress

Contentful

Interactive apps

Custom experiences

RRAURL

CTO

07/1997 - 12/2013 – 16 yrs 6 mos

- Led multiple migrations from Ruby on Rails to PHP, improving time to production by 500%, reducing costs by 80%, and scaling the platform to handle a 3000% increase in user base. Introduced features like user interactions, personalized pages, and paid sections, driving 500,000 monthly users and over 10 million page views.
- Optimized company-wide architecture and platform scalability, achieving 99% uptime and reducing resource usage by 400% through caching and replica sets. Enhanced scalability by 1600%, supporting a 300% revenue increase.
- Implemented a long-term technological blueprint, introducing best practices and new technologies that drove consistent 40% year-over-year revenue growth and expanded product capabilities into new markets.

Music industry

Ruby on Rails

PHP

Platform Scalability

CMS

User Interaction

Infrastructure Optimization

Technical Skills

Core Development

- Frontend: React/Next.js (Expert), TypeScript, PWA Architecture
- Backend: Node.js, GraphQL, REST API Design
- Architecture: Microservices, Serverless, System Design

Infrastructure & Quality

- Cloud: AWS, GCP, Vercel
- CI/CD: GitHub Actions, CircleCI, Jenkins

- Testing: Unit, e2e, Integration

Data

- Analytics: Google Analytics, Mixpanel, Segment, Amplitude
- Visualization: D3.js, Chart.js, Nivo
- Databases: PostgreSQL, MongoDB, DynamoDB
- Caching & Search: Redis, Elasticsearch

Specialized Skills

- Design Systems: Component Libraries, UI Frameworks
- Performance: Load Testing, Optimization, Monitoring

Areas of Expertise

- Scalable System and Application Development
- Architecture Design for Performance and Growth
- Strategic Planning for SaaS Solutions
- Mentorship and Skill Development
- Agile Workflows and Cross-Functional Collaboration
- AI Integration and Automation

Education

USP - University of São Paulo

Physics (1990 - 1993)

Focused on astrophysics, computational methods, and theoretical modeling.

Languages

Portuguese: Native

English: Advanced (C2)

French: Intermediate (B2)