# Bruno Santos
Lead Software Engineer | Backend Specialist | Technical Leader

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## Professional Summary

Seasoned software engineer with 17+ years of experience designing, building, and scaling backend systems for high-impact products. I combine deep technical expertise in Elixir, Ruby, and distributed architectures with a leadership style rooted in trust, clarity, and shared ownership.

I thrive at the intersection of craftsmanship, mentorship, and measurable results—delivering systems that perform, teams that grow, and solutions that make a difference. Driven by curiosity, collaboration, and the belief that the best software is built by empowered teams.

## Skills

**Languages & Frameworks**
Elixir, Phoenix, LiveView, Ruby, Ruby on Rails, TypeScript, React, GraphQL

**Databases & Data Stores**
PostgreSQL, MySQL, Redis, Elasticsearch, Neo4j

**DevOps & Infrastructure**
Docker, Kubernetes, AWS, Google Cloud Platform (GCP)

**Messaging & Queueing**
RabbitMQ

**Practices & Methodologies**
TDD, CI/CD, Scrum, Kanban, Pair Programming

**Other**
API design, Microservices architecture, Distributed systems, Performance optimization

## Professional Experience

### Lead Software Engineer - Shopnomix                    Jul 2024 - Current

- Architected a high-performance ad bidding platform using Elixir and Phoenix LiveView, supporting real-time tracking and optimization for thousands of concurrent bids.
- Designed PostgreSQL data models that improved query efficiency by **40%**, enabling faster and more accurate ad placement decisions.
- Led a company-wide adoption of TDD, reducing production defects by **35%** and shortening deployment cycles.
- Mentored engineers, fostering a culture of quality, open communication, and continuous learning.

### Senior Software Engineer - Allovue, Inc.                Mar 2022 - Aug 2024

- Spearheaded the development of a state-funded educational finance portal, enabling transparency and efficiency in public school budgeting.
- Modernized and expanded the core of existing school finance products, improving performance and scalability for thousands of end-users.
- Championed Elixir/Phoenix adoption to enhance maintainability and speed of feature delivery.
- Collaborated closely with product and design teams to align technical direction with user needs.

### Senior Software Engineer - Remote Technology, Inc.        Aug 2021 - Mar 2022

- Built custom HR platform integrations with robust bidirectional data synchronization via APIs and webhooks.
- Improved system reliability and reduced integration errors through proactive monitoring and automated testing.
- Enhanced developer experience by refining CI/CD workflows.

### Senior Software Engineer - Foxbox Digital               Jun 2020 - Jul 2021

- Designed and delivered ecommerce solutions integrating Elixir/Phoenix, Ruby on Rails, React, and ElasticSearch with platforms like Shopify and Salesforce.
- Developed ecommerce analytics systems integrating BigQuery, Google Sheets, and multiple data pipelines.
- Contributed to architecture decisions across multiple projects, ensuring scalability and maintainability.
- Interviewed backend candidates and mentored team members.

### Time off to recharge and focus                           Jan 2020 - May 2020

### Senior Software Engineer - XING GmbH & Co. KG            Oct 2018 - Dec 2019

- Delivered new features for Ruby on Rails applications while guiding Elixir adoption for greenfield projects.
- Designed APIs in close collaboration with frontend teams, improving API usability and consistency.
- Worked within cross-functional teams to deliver value using Scrum and Kanban.

### Backend Team Lead - Wunder Carpool                       Feb 2017 - Sep 2018

- Managed a team of backend engineers, conducting 1:1s, mentoring, and guiding technical decisions.

- Planned and shipped features with a focus on scalability and maintainability.
- Migrated portions of the system to a graph database, improving data modeling capabilities.
- Managed and mentored a team of 7 engineers, improving team productivity through effective coaching and process optimizations.
- Led migration of a legacy Ruby API to Elixir microservices, reducing system downtime by 40% and improving API response times by 70%.
- Directed migration of key data services to Neo4j, enhancing query performance by 50% and significantly simplifying data structures.
- Streamlined feature planning and execution processes, reducing feature delivery timelines by 20%.
- Collaborated closely with mobile and frontend teams to enhance integration processes, decreasing integration errors by over 30%.

### Senior Software Engineer - TIDY Homekeeping                 Mar 2016 - Jan 2017

- Worked on the backend building an API using Ruby on Rails, PostgreSQL, Redis, Sidekiq and Docker, which supported multiple web and mobile applications
- Built a small PoC using Elixir and Phoenix

### Software Engineer - Quimbik, Inc.                 Aug 2012 - Feb 2016

- Developed several websites using Ruby on Rails, MySQL and Javascript
- Built REST APIs with Ruby on Rails that were consumed by mobile apps
- Helped in projects with other technologies such as Objective-C, Groovy/Grails, and Java

### Earlier Experience

- Senior PHP Developer - FPP EDU-Media, Inc. ( 2010 - 2012)
- Web Developer - WAD Soluções para Internet ( 2008 - 2010)
- Delphi Developer - BWN Aplicativos ( 2007 - 2008)