

Davi Santana

SOFTWARE ENGINEER · BACK-END DEVELOPER

São Carlos - SP, Brazil

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About Me

Software developer with a strong background in distributed systems and the architecture of large-scale integrations with providers such as Meta, Google, and Amazon. I'm passionate about performance, with deep expertise in JavaScript/Node.js internals, database optimization, and the design of reliable serverless and microservices architectures. I focus on building complex, scalable, and sustainable systems.

Professional and Volunteer Experience

Software Developer

Tekna.Rocks

Mill Valley, California - United States

April 2024 - Present

- Architected and implemented integrations with Amazon SP-API and Google Drive, incorporating it into the content processing workflow and restructuring part of the infrastructure to meet both vendors requirements.
- Developed image and document recognition workflows using Google Cloud Vision API, enhancing automation and data extraction capabilities for large-scale processing tasks.
- Led the integration and refactoring of the two most critical services in the platform, redesigning their serverless multi-cloud distributed architecture and optimizing the processing pipeline for audio, image, and document scanning.
- Worked extensively with microservices architecture, implementing workers for computationally intensive processing of audio, video, and text data.
- Coordinated and delegated backend and infrastructure tasks, establishing engineering best practices and mentoring junior developers and peers on core concepts such as advanced Node.js streams and database performance optimization.
- Identified key performance bottlenecks across the platform and defined a resolution plan covering more than 7 services and an Angular frontend. The optimization work required extensive profiling and deep expertise in JavaScript, Node.js internals, and database tuning, reducing the load time of report-heavy pages from 8 seconds to 1 second (≈85% reduction).

Volunteer Researcher (Monipaep)

São Carlos, Brazil

USP

March 2024 - February 2025

- MoniPaep promotes public health in the São Carlos community by enabling early detection and swift response to emerging health threats, ultimately contributing to better health outcomes and enhanced community resilience.
- Independently rebuilt and updated the mobile system to the latest package versions, ensuring improved performance, security, and user experience for end users.
- Constructed a deployment pipeline on AWS EC2, which streamlined the deployment process and reduced downtime, allowing for more frequent updates and improved application reliability.
- Mentored other team members on the nuances of the project, fostering a collaborative learning environment that enhanced team skills and improved overall project quality.

Education

Universidade de São Paulo

São Carlos, Brazil

Undergraduate's Degree in Information Systems

February 2024 - Present

ETEC Jornalista Roberto Marinho

São Paulo, Brazil

Internet Computing Technician

February 2021 - December 2023

Soft and Hard Skills

Programming and Softwares

TypeScript, Node.js (NestJS, Express, Hono, ...), Python, GoLang, SQL and NoSQL databases, Linux, AWS, GCP, Cloudflare, Docker, Terraform and CI/CD platforms (GitHub Actions and CircleCI).

Soft Skills

Time management, Communication, Problem-solving, Autonomy

Languages

English: Upper Intermediate

Portuguese: Native

Spanish: Basic