

# Galileo Sanchez

Lead Backend Engineer

Remote, from Asunción, Paraguay

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## About

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Unblocking and speeding up teams through strategic optimization of systems and processes. Whether it's speeding up tests that take too long, sorting out root causes for release delays from conflicts, or setting up ways for everyone to deliver work independently with strong confidence even when the team is blocked on releases. Let's team up and speed up!

## Core Strengths

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- **Performance Optimization & Testing:** Delivered sub-500ms report loading times by rewriting struggling ad-impression ETL pipeline handling over 1M requests/day using K6 load testing and ClickHouse event-driven storage, with expertise in system debugging and bottleneck analysis
- **CI/CD & DevOps:** Empowered team of 5 developers to achieve daily releases by building CI/CD pipelines with Docker and GitHub Actions, incorporating Jest automated testing, with proficiency in Terraform and AWS ECS
- **Backend System Development:** Minimized maintenance dependencies by refactoring legacy code into independent subsystems using custom Git filter-branch scripts, leading to seamless onboarding for 100+ engineers, leveraging TypeScript, Node.js, NestJS, and event-driven microservices architecture
- **Cross-functional Collaboration:** Facilitated product managers and 3-5 developers to minimize design back-and-forth through attentive listening, note-taking, and clarifying questions.
- **Full-Stack Technical Expertise:** Proficient across databases (PostgreSQL, ClickHouse, Aurora RDS), frontend technologies (React, Next.js, Qt/C++), cloud platforms (AWS, SQS/EventBridge, Datadog), and real-time systems integration

## Work Experience

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### Glui – *U.S.-based global startup*

Lead Technologist

Feb 2025–Present

*Remote, from Asunción, Paraguay*

- **Attained** 80M requests/day capacity validation by overseeing event capturing system and load test plan using K6
- **Decreased** test case review time from hours to minutes by creating Test helper SDK using TypeScript, Superagent, and Jest

Lead Backend Engineer

Oct 2024–Feb 2025

*Remote, from Asunción, Paraguay*

- **Allowed** frontend developers to work at predictable rate by creating NestJS microservices for campaign management using Docker and JSON-API v1
- **Helped** over 10 internal users access secure systems by setting up Keycloak authentication with NestJS RBAC using Docker containers

Software Engineer

May 2024–Sep 2024

*Remote, from Asunción, Paraguay*

- **Empowered** team of 5 developers to deploy in 10 minutes by building CI/CD pipelines with GitHub Actions, Docker, and Cycle.io, incorporating Jest integration tests

## Clipboard Health – *U.S.-based global startup*

Senior Software Engineer

Dec 2022–Nov 2023

*Remote, from Asunción, Paraguay*

- **Lowered** undelivered notification errors by implementing retry mechanisms and async handlers using Datadog traces, benefiting 50K+ healthcare workers
- **Accomplished** production-level load handling (2000+ reqs/min) by implementing K6 performance monitoring and testing frameworks
- **Cut** CDC latency issues by leading debugging with EventBridge, Mongo Atlas, and Datadog, leading to decreased demand-side churn in a 2-sided marketplace

Software Development Engineer

Nov 2021–Feb 2023

*Remote, from Asunción, Paraguay*

- **Realized** zero-downtime separation of frontend from monolithic app into React repository using custom Git filter-branch scripts, benefiting 100+ collaborators
- **Optimized** invoice processing time from 2 days to 2 hours by refactoring to event-driven retry mechanisms, leading to on-time delivery for finance team and clients

## Galileo Sanchez, Freelancer – *2014–2021*

Jijo

2021

*Remote, from Asunción, Paraguay*

- **Facilitated** supply-side users to collect reliable payments by building Stripe integration with booking interface and Redux state management
- **Minimized** video call costs while improving quality by migrating from Chime to Agora SDK using React, custom hooks, and session providers

National Computing Center

2018–2020

*On-site, Asunción, Paraguay*

- **Eliminated** 10K+ printed PTO requests/year for 2000+ employees and HR team by building React platform for clock-in/out and leave requests using Node.js, Express, and PostgreSQL
- **Delivered** on-time completion of full development lifecycle by managing from start to deployment under technical director oversight

Trivellini Tech

2017–2018

*On-site, Asunción, Paraguay*

- **Accomplished** real-time UI responsiveness for surgical device metrics by building C++/Qt frontend with Qt Signals, integrated with Raspbian on Raspberry Pi
- **Supported** surgeons and team of 3 engineers to optimize device response times by collaborating in results-based flexible environment

Alien Milling Co.

2014–2017

*Remote, from Asunción, Paraguay*

- **Allowed** e-commerce clients to process labels with 3D previews by creating Electron/React Shopify app integrated with Three.js for STL rendering

## Education

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### National University of Asunción

Software Engineering

2009–2013

- Completed CS curricula focusing on software development, algorithms, and database systems. Supported interdisciplinary collaboration with electrical and electronics engineering students to build a line-follower bot backend using computer vision on an Android-mounted system.