SERGIO HENRIQUE CARVALHO PRUDÊNCIO

Senior Full Stack Engineer · Web · Mobile · Backend

Espírito Santo, Brazil (Remote) · +55 (27) 99768-6060 · sergiohenriquecarvalho@hotmail.com · linkedin.com/in/sergiohcp

SUMMARY

Senior Full Stack Engineer with 7+ years building products end to end across web, mobile and backend. React, React Native and Flutter on the front, Node.js, NestJS and Django on the back, all running on AWS. I have worked in the React ecosystem since 2019, and in my last two roles I have owned features across all three layers rather than specializing in one. At Oral Genome, a US health-tech company, I am responsible for mobile and backend, work across infrastructure, and build the product layer around our in-house computer vision models. I build with AI every day: Claude, MCP servers and custom skills are part of my workflow on production code. Earlier I led mobile as Tech Lead at Wine.com.br, one of Brazil's largest wine retailers.

CORE SKILLS

Languages TypeScript, JavaScript, Python, Dart, Java, Objective-C, SQL (Go: studying)
Frontend React, Next.js, Redux, React Query, Tailwind CSS, HTML/CSS
Mobile React Native (Expo and CLI), Flutter, native modules, Clean Architecture, Bitrise, Fastlane, store releases
Backend Node.js, NestJS, Django, Django REST Framework, REST, GraphQL, PostgreSQL, Strapi
Cloud and DevOps AWS (ECS Fargate, ALB, Cognito, Amplify, S3, Lambda, SQS, SNS, RDS, DynamoDB, AppSync), Docker, CI/CD, Firebase
AI Computer vision product integration, Claude, MCP servers, custom skills, AI-assisted development
Testing and quality Jest, Playwright, Appium with Cucumber, load testing, Sentry, New Relic, Bugsnag
Ways of working Technical leadership, code review, Scrum and Kanban, remote work with US teams, English C1

EXPERIENCE

Oral Genome — Carlsbad, CA, US · Remote

Senior Software Engineer *Jun 2024 – Present*

US health-tech turning saliva-based tests into personalized oral health insights, now expanding internationally. I own mobile and backend, work across infrastructure and contribute on web.

- Lead the Flutter app used to run tests and deliver results, structured on Clean Architecture to keep domain logic independent from framework and data.
- Design and maintain the NestJS services and REST APIs behind mobile and web: authentication, test workflows and result processing, with Strapi as headless CMS so content ships without a release cycle.
- Build the product layer around computer vision models trained in-house: capture and validation on mobile, inference APIs, result handling and the edge cases that decide whether it works in the real world.
- Run the AWS platform: ECS Fargate, ALB, Cognito, Amplify, S3, Lambda, SQS and SNS, plus deployment pipelines and event-driven flows.
- Built the E2E suite with Appium, Java and Cucumber, cutting manual regression time before each release, and ran load testing on critical endpoints to find bottlenecks before high-traffic periods.
- Own the release pipeline with Bitrise and Fastlane (builds, signing and store submission for iOS and Android), and instrument both sides with Sentry, New Relic and Firebase.
- Use Claude, MCP servers and custom skills daily on production code, and build MCP integrations and reusable skills that encode our codebase conventions.

Stack: React, Flutter, Dart, Node.js, NestJS, TypeScript, Docker, PostgreSQL, AWS, LLMs.

Superset — Brooklyn, NY, US · Remote

Senior Software Engineer *Mar 2024 – Aug 2026*

Digital fitness platform connecting personal trainers with their clients. Genuinely full stack tickets: a feature was mine from the database through the API to the screen, on web and mobile alike. Part-time contract in the later part of the engagement, alongside Oral Genome.

- Built and maintained the React web application coaches use to create, customize and manage training programs: complex multi-step forms, data-heavy tables and client management views.
- Owned those web features end to end, from component structure and state management with Redux and React Query to the API contracts behind them.
- Developed the client-facing app in React Native and Expo, covering training sessions, progress tracking, biometric login and offline support, shipped to iOS and Android through Expo pipelines.

- Designed and maintained REST APIs in Django and Django REST Framework: data modeling, permissions, authentication and integration between the client app and coach tools.

  Stack: React, React Native, Expo, TypeScript, Redux, React Query, Tailwind CSS, Python, Django, Django REST Framework, Docker, PostgreSQL, AWS, LLMs.

Wellhub (formerly Gympass) Brazil · Remote

Senior Software Engineer *Jun 2024 – Oct 2024*

Global corporate wellbeing platform. Short-term contract on the Explore squad, responsible for the features that let users discover the gyms, studios and apps available in their plan.

- Developed and maintained discovery features in the consumer app, built with React Native CLI, using the user's location to surface relevant gyms and partners.
- Consumed GraphQL APIs powering search, listing and filtering across a large partner catalog, and worked on the performance of high-traffic flows serving an international user base.
- Built end-to-end test automation with Playwright, covering critical discovery journeys.

  Stack: React Native (CLI), TypeScript, GraphQL, Playwright.

Wine.com.br Espírito Santo, Brazil

Tech Lead | Specialist Software Engineer *Sep 2022 – Jun 2024*

One of the world's largest wine clubs. As tech lead for mobile, I owned our apps from UX handoff through development to store release.

- Led the mobile team: technical direction, code review, release decisions and planning across squads, working with UX and the business units from the earliest definitions so technical constraints shaped the product before handoff instead of after.
- Owned three apps: Wine, the flagship React Native app for buying wine online and in stores and subscribing to the clubs; WE Wine, used by sales entrepreneurs to sell directly to their customers; and a Flutter in-store app that scans bottle barcodes and generates invoices, integrated with Zebra handheld scanners.
- Built supporting services and APIs in Node.js and NestJS alongside the mobile work, so features that needed a server side did not have to wait on another team.
- Ran app health with Firebase, Bugsnag, New Relic and Bitrise, and used CleverTap and Mixpanel to understand how customers actually moved through the apps, feeding that back into what we built next.

  Stack: React Native (CLI), TypeScript, Redux, React Query, Flutter, Next.js, Node.js, NestJS, Strapi.

Mid-Level Software Engineer *Jan 2021 – Aug 2022*

- Worked on the creation of the internal component library, built to match the design system defined by UX, so screens across the apps stayed visually and behaviorally consistent.
- Owned projects from inception to deployment: requirements, stakeholder coordination and delivery timelines. This is where I first took responsibility beyond my own code, and it led to the tech lead role.

Junior Software Engineer *Mar 2020 – Dec 2020*

- Developed features in React Native and TypeScript with Redux and Jest, including “Boost your subscription”, which let customers increase the number of bottles in their plan: more flexibility for subscribers and increased revenue for the company.

uDNA Espírito Santo, Brazil

Software Engineer *Feb 2020 – Sep 2020*

- Brazilian health-tech selling at-home genetic tests. On a small team I built the product end to end: the React Native ecommerce app where customers browse, buy and track tests, and the serverless backend on AWS (AppSync for the GraphQL API, Cognito, DynamoDB, Lambda and S3), owning the whole path from checkout flow to infrastructure.

LiftBank Espírito Santo, Brazil

Software Engineer *Mar 2019 – Feb 2020*

- Payments and banking products: contributed to four React Native apps (LiftPay, LiftBank, LiftMini and LiftSeller), consuming GraphQL APIs through AWS Amplify and AWS AppSync.
- Integrated an Objective-C library so the app could talk over Bluetooth to a card reader, bridging native code into React Native: my first real work below the JavaScript layer, and it still shapes how I approach native modules and hardware.

  Stack: React Native, React, JavaScript, Objective-C, GraphQL, AWS.

EDUCATION AND CREDENTIALS

Bachelor of Electrical Engineering · Ifes — Instituto Federal do Espírito Santo *2015 – 2024*

Certification Deep Learning Nanodegree, Udacity (2019)

Languages Portuguese (native), English (advanced, C1)

Currently learning LLMs and AI application development, Go