

# Guilherme Dunguel

## Software Engineer

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### SUMMARY

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Software Engineer with 4+ years of experience building production-grade mobile and web applications. Specialized in React Native and TypeScript, with additional backend experience in Node.js, NestJS, and PostgreSQL. Proven track record with offline-first apps in low-connectivity environments, native modules (Swift/Kotlin), and performance optimization.

### EXPERIENCE

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**Software Engineer** · TraviCar Jan 2024 – Present  
Rio Grande do Sul, Brazil (hybrid)

- Built native modules in Swift and Kotlin to process heavy KML/XML files, reducing parsing time by 95% (from 3 minutes to ~7 seconds)
- Led the full migration of a mobile app from Flutter to React Native in 3 months, delivering on time with zero production downtime
- Created a beta testing program with agricultural pilots for direct field feedback, correcting product direction and recovering the active user base
- Designed an offline-first architecture with SQLite and DrizzleORM for an app used by agricultural pilots in low-connectivity regions, with reliable sync upon reconnection
- Optimized map rendering with React Native Skia, improving navigation performance by 130% and eliminating freezes on lower-end devices

**Software Engineer** · Hypesoft Mar 2023 – Nov 2023  
Rio de Janeiro, Brazil (remote)

- Architected and developed a CRM in React and TypeScript for participant registration and management at a major Brazilian TV broadcaster, serving over 10 million users
- Integrated generative AI into a customer support system via Flask (Python), connecting ChatGPT to a vector database (Pinecone) with company documents, reducing the load on human agents
- Built a backend for PDF report generation and storage with Puppeteer, NestJS, and AWS S3, automating document delivery

**Front-End Developer** · Grupo Star Info Feb 2022 – Mar 2023  
Rio de Janeiro, Brazil (remote)

- Migrated a CRM project from HTML/CSS with Bootstrap to React and TypeScript, enabling product evolution and continuous delivery of new features
- Built a reusable component library with Storybook and defined frontend architecture standards adopted across the project

### SKILLS

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React Native · React · Expo · TypeScript · JavaScript · React Native Skia · Reanimated · Swift · Kotlin · SQLite · DrizzleORM · Zustand · TanStack Query · Next.js · Node.js · NestJS · AWS · Jest · Sentry

### EDUCATION

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**Bachelor's Degree, Software Engineering** · Uninter Feb 2026 – Feb 2030

### LANGUAGES

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Portuguese (native) · English (professional working proficiency)