Gustavo Maltez

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SOFTWARE ENGINEER SUMMARY

- Full-stack developer with 5+ years of experience (including 4 years at a US-based healthcare startup) building scalable, secure, and maintainable applications with TypeScript, React, and Node.js.
- Built and maintained a 3D virtual medical assistant using modern 3D engines, speech-to-text, and text-to-speech services, enabling patients to interact with a virtual doctor and securely provide medical data.
- Delivered multiple responsive web applications using React, Remix, and TailwindCSS, ensuring flawless performance across browsers and devices.
- Led technical direction of the team, mentoring developers and enforcing best practices to improve code quality, readability, and maintainability.
- Reduced monorepo build times by 88% by replacing Babel/Webpack with a custom ESBuild + TypeScript compiler pipeline.
- Implemented a GenAI-powered test generation system, cutting development time by 60% and lowering human error rates across questionnaire workflows.

TECHNOLOGIES AND LANGUAGES

Languages: JavaScript (ES6+), TypeScript, HTML5, CSS3
Technologies: React, Remix, Next.js, Node.js, Deno, FreshJS, TailwindCSS, React Context API, Storybook, Zod, TypeScript Compiler API, Vite, Webpack, Babel, ESBuild, Docker, Git, GitHub, GitHub Actions, Google Cloud Platform (GCP), Firebase, Cloud Functions, Google Cloud Storage, WebSockets, Socket.IO, OpenAI APIs, Google Dialogflow, Google Speech-to-Text, Google Text-to-Speech, ThreeJS, BabylonJS, Vitest, Playwright, Jest, React Testing Library, Sentry, PrismaORM, MongoDB, PostgreSQL

EMPLOYMENT & EXPERIENCE

Technical Lead (remote - US)   *SOAP Health*   *Aug 2025 – Present*

SOAP Health is a US-based healthcare technology company that prevents misdiagnosis by enabling patients to complete a virtual medical interview with an AI-powered 3D doctor. The platform generates risk and symptom assessments, integrates with EHR systems, and provides physicians with a comprehensive patient overview, saving time, improving diagnostic accuracy, and supporting better clinical outcomes.

- Led the technical direction of the team, mentoring developers to improve code quality, readability, and maintainability.
- Managed technical debt and enforced best practices to ensure long-term project sustainability.
- Coordinated cross-team collaboration and drove architectural decisions for the core healthcare platform.
- Conducted technical interviews, evaluating candidates' coding, problem-solving, and system design skills.
- Established scalable development processes and standards, accelerating onboarding and improving team efficiency.

Senior Software Engineer (remote - US)   *SOAP Health*   *Jun 2023 – Sep 2025*

- Developed and maintained scalable full-stack applications with React, Remix, Node.js, and TypeScript, including integrations with US EHR systems and third-party APIs for authentication, speech-to-text, and clinical workflows.
- Maintained and enhanced the 3D virtual medical assistant, migrating engines from UnityJS to BabylonJS and ThreeJS, improving maintainability and supporting new interactive features.
- Enforced declarative coding patterns, developed internal abstractions, and mentored team members to improve code readability, maintainability, and test coverage.
- Reduced monorepo build times by 88% by replacing Babel/Webpack with a custom ESBuild + TypeScript Compiler API pipeline running on Node worker threads.
- Implemented a GenAI-powered test generation system for questionnaire flows, cutting development time by 60% while reducing human error and ensuring consistent, high-quality tests.

Software Engineer (remote - US)   *SOAP Health*   *Apr 2021 – Jun 2023*

- Developed and maintained a React-based medical questionnaire application with a 3D virtual assistant, enabling patients to complete interactive medical assessments.
- Implemented secure authentication flows including passwordless access, login recovery, and feature flag management for efficient continuous feature delivery.
- Optimized API traffic and application loading times by creating a client-side caching system with versioned data and building a metrics dashboard using MongoDB, Remix, and Recharts to track user interactions and system performance.
- Integrated third-party services for speech-to-text, text-to-speech, and intent detection (Google STT, Dialogflow), reducing latency and API costs while supporting real-time patient interactions.
- Developed an AI-driven questionnaire system that dynamically generated new questions based on user responses, improving the speed and accuracy of patient assessments.

Software Engineer (hybrid - BR)   *IncludeJr*   *Jul 2020 – May 2021*

IncludeJr is a software company from the Federal University of Ceará, where I studied Software Engineering for three years. It delivers real-world software projects across multiple cities, providing hands-on experience in full-stack development, UI/UX design, and client-focused solutions.

- Developed a user management platform for a solar energy company using ReactJS, Node.js, and TypeScript, deployed on Digital Ocean, handling frontend design, backend integration, and UI implementation.
- Built a standalone ElectronJS desktop application for customizing and printing sequential stickers/tickets, allowing users to edit templates, select components, and generate final PDFs.
- Designed and implemented user interfaces from Figma mockups, collaborating with clients to gather requirements and ensure a smooth user experience.
- Managed the full development lifecycle, maintaining and improving applications to meet evolving client needs.
- Gained hands-on experience with front-end and back-end integration, database management (SQLite/PostgreSQL), and desktop application development using JavaScript/TypeScript.

EDUCATION

Federal University of Ceará   Ceará, Brazil
Software Engineering   *Jan 2020 - Dec 2022*

Rocketseat   Brazil
ReactJS Ignite Bootcamp   *Dec 2021*