KARLA AGRAZ

React Developer | Frontend Engineer
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PROFESSIONAL SUMMARY

Frontend Developer with 5+ years of experience building accessible, responsive, design-faithful web applications with React, Next.js, TypeScript, and Tailwind CSS. Experience in UX/UI, component-based architectures, token-based design systems, and translating Figma designs into production-ready interfaces. Creator of an offline-first PWA with AI integration (Gemini), spaced repetition, and Supabase with RLS, backed by 6,000+ automated tests. Focus on accessibility (WCAG), performance, and maintainable code. Remote collaboration with designers and backend engineers.

TECHNICAL SKILLS

Frontend: React 19, Next.js (App Router), TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, SASS, Responsive Design

State & Data: React Hooks, Zustand, Dexie/IndexedDB, REST APIs, Supabase, PostgreSQL, SQL, offline-first sync

UX/UI & Accessibility: Design systems and design tokens, component libraries, WCAG, Figma, micro-interactions, PWA, cross-browser compatibility, pixel-perfect implementation

Testing & Quality: Vitest, Testing Library, Playwright (a11y), ESLint, code reviews

Tools & Platforms: Git, GitHub, Vite, Vercel, agile collaboration, PHP/Laravel (backend)

AI Integration: Gemini API, Web Speech API, local TTS (Kokoro), prompt engineering, AI-assisted development

Spoken Languages: Spanish (native), English (professional working proficiency)

PROFESSIONAL EXPERIENCE

Independent Developer (Full-Stack & Personal Projects)

Self-employed | Remote | September 2025 - Present

- Expanded my profile from frontend/UI to full-stack through self-directed study and personal projects: backend, databases (PostgreSQL/Supabase with RLS), authentication, security, and automated testing.
- Design, build, and maintain English Journal, an offline-first full-stack PWA with AI integration (see Projects), along with other personal projects.
- Use AI (Gemini) and AI-assisted development in my workflow to build and validate more complex solutions end to end.

Software Engineer (Frontend - React & TypeScript)

Cultivate | Remote | April 2023 - September 2025

- Developed and maintained scalable React and TypeScript components for a customer-facing platform, delivering pixel-perfect implementations of Figma designs across all responsive breakpoints.
- Built and documented reusable UI components within the design system, reducing duplicated styles and shortening delivery time for new screens.
- Integrated React interfaces with Laravel/PHP REST APIs, collaborating with backend engineers to align API contracts and data models.
- Participated in code reviews, providing feedback on accessibility, performance, and design system consistency.

Web UI Developer

Denomades | Remote | May 2021 - August 2022

- Optimized the UX and frontend performance of the company website, achieving a 100/100 Lighthouse score in Performance, Accessibility, Best Practices, and SEO.
- Designed and documented core UI components (buttons, inputs, menus, modals) in the company style guide, improving consistency across teams.
- Developed and maintained features across multiple internal and customer-facing platforms, contributing to codebase migrations and refactors.
- Provided frontend guidance and technical support to non-engineering teams, streamlining internal workflows.

VOLUNTEERING & COMMUNITY LEADERSHIP

Women Techmakers Ambassador

Women Techmakers | Remote | September 2026 - Present

Selected as a Women Techmakers Ambassador, contributing to a global community focused on advancing women in technology through mentorship, leadership, and knowledge sharing.

- Mentor women in Product and Technology, supporting career growth and the transition from execution-focused roles into stronger product leadership.

- Speak at events, panels, and community sessions on Product Management, AI, leadership, and career development.
- Design and facilitate workshops that turn emerging technology and product challenges into practical frameworks and conversations.
- Create thought-leadership and educational content on AI, product strategy, leadership, and the future of work.
- Build connections across the tech ecosystem and collaborate with fellow Ambassadors on initiatives that increase visibility, learning, and opportunities for women in technology.

PROJECTS

English Journal – Full-Stack English Learning Platform (offline-first PWA)

Next.js 16, *React 19*, *TypeScript*, *Tailwind v4*, *Supabase (Postgres + RLS)*, *Dexie/IndexedDB*, *Gemini API*, *FSRS*, *Vitest*, *Playwright*

- Built a full-stack PWA that combines pronunciation, vocabulary, writing, and conversation into a single learning loop, with 226 lessons across 11 units (A1–C1), 2,800 essential words, and 28 AI conversation missions.
- Designed an offline-first architecture with Dexie (IndexedDB) and a retry-based sync outbox to Supabase, plus local TTS with Kokoro, so practice works without a connection.
- Integrated the Gemini API through server routes with a fallback model chain, daily quota reservation, and per-user limits. Built a pre-generated content bank using leftover free-tier quota, serving exercises with 0 live calls.
- Implemented hybrid local-first grading: a tolerant grader and deterministic grammar-structure detectors before falling back to AI, with a maximum of 2 AI calls per exercise.
- Implemented spaced repetition with FSRS (ts-fsrs) and a skills profile based only on assessed practice, without inflating progress through streaks or logins.
- Modeled 129 Supabase migrations with RLS on every table, per-request nonce CSP, and `service_role` kept out of the client.
- Established guardrails as code (ESLint rules, RLS and secrets audits, design token linting) and a suite of 6,478 passing tests across 1,073 files.
- Built a design system with CSS tokens and a dynamic accent color, plus 10+ practice mini-games.

EDUCATION

Frontend Developer Program - React Specialization

Platzi | *Facebook Developer Circles* | *2019 - 2020*

ADDITIONAL INFORMATION

Portfolio: csswoman.com | Open to full-time, freelance, and contract roles - fully remote.

Growth interests: backend, cloud, mobile apps, game development, UX/UI design, and web content.