Jean Canales

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Professional Summary

Senior Full-Stack & Mobile Engineer with 6+ years building production-grade systems across **iOS**, **React Native**, **Vue/Nuxt**, and **Node.js**, with deep experience in **AI orchestration** and **multi-agent architectures**. I've built native **iOS modules** (Family Controls, Safari Extensions), **geospatial search engines**, **RAG systems**, **multi-agent pipelines**, and full **SaaS products** end-to-end as both founder and lead engineer. I specialize in taking complex ideas — **mobile apps**, **AI engines**, **ingestion systems** — and turning them into polished, real-world products.

Technical Skills

Programming Languages: Typescript, JavaScript (JS), HTML, CSS, SCSS, Python, PHP, Go, Shell Scripting, Swift
Tools & Platforms: Git, Bitbucket, Jira, Confluence, NPM, Lighthouse, OAuth 2.0, Supabase (Auth, Edge Functions, Storage), OpenAI API, Gemini API, WordPress, Figma, Adobe XD
Cloud/DevOps: AWS (S3, Cloudfront), Docker, CI/CD (Bitbucket Pipelines)
Frontend Technologies: React, Vue.js (Composition API, Options API), Vuetify, Bootstrap, Hugo (Static Site Generator), Vuex, Pinia
Mobile Technologies: React Native, Swift, Expo (EAS Build) and Native iOS Modules (FamilyControls, DeviceActivity, ManagedSettings, Safari Web Extensions).
Backend Technologies: Laravel, Node.js
Soft Skills: Problem-solving, Communication, Collaboration, Leadership, Mentorship, Adaptability, Critical Thinking, Project Management
Methodologies & Concepts: Mobile-First Development, Responsive Design, Single Page Applications (SPA), Server-Side Rendering (SSR), Performance Optimization, Iterative Development, RESTful APIs (REST), UI/UX Design, Strategic Development
Databases: MySQL, MongoDB
Testing/Technical Skills: Selenium, AI Prompting, File Handling, PHPUnit,
AI/ML Skills: RAG pipelines, Vector Search (Weaviate, Haystack), Multi-Agent Orchestration, LLM Prompting, Retrieval/Extraction Agents

Work Experience

Full Stack Mobile Developer (React Native, Swift, NodeJS) | Unburdened by Spenser App Inc | Remote (Founder)

- Built a **full-screen financial behavior change app** using React Native (Expo), combining **iOS Family Controls**, **Safari content-blocking**, geofencing, AI automation, and debit-card rule logic to help users reduce impulsive spending.
- Engineered multiple **native iOS modules in Swift** (FamilyControls, DeviceActivity, ManagedSettings, AppGroups) enabling app blocking, schedules, category restrictions, and on-device enforcement synchronized with React Native.
- Built **AI-powered behavior interventions**, including location-triggered "AI calls" and conversation agents integrated with Supabase Edge Functions, OpenAI, and Redis for real-time nudging and habit formation.
- Created a **multi-step AI conversation flow** using Deno Edge Functions (Supabase), Axios-based orchestrators, and dynamic widget UIs for time pickers, location settings, and spending limits.
- Implemented **geofencing** with high-precision place detection (Google Places + Apple Maps) and personalized triggers for entering stores, restaurants, or overspending zones.
- Built a modern revenue stack including **RevenueCat paywalls**, subscription management, product configuration, and real device testing (EAS builds, TestFlight).
- Designed all **deployable environments**: EAS profiles, entitlements, bundle IDs (main app + extensions), app groups, and provisioning for App Store distribution.
- Implemented a **Safari Web Extension** with declarativeNetRequest rules, native messaging, and a Swift bridge to dynamically block URLs from the mobile app on scheduled rules.

Frontend Developer (VueJS, MySQL, PHP) | Ads.com | · *Remote Oct 2023 – Present*
- **Led the critical migration** of the core customer-facing application UI from **Vue 2 to Vue 3**, upgrading dozens of components and state management to **Pinia**. This significantly reduced technical debt and improved development velocity by **20%**.
- **Co-developed and owned** the new administrative UI for a core product launch using **Nuxt.js** and **Figma** specifications;

served as the **co maintainer** for the past year, ensuring high reliability and continuous feature delivery.
- **Mentored and trained junior developers**, providing constructive **code review** and enforcing quality standards to elevate the team's overall coding practices.
- **Engineered** a high-performance **RSOC article platform** using **Hugo** templates for efficient page rendering; optimized the critical path to achieve a consistent **Lighthouse Performance Score of 98**.
- **Drove AI Content Automation and Quality** by **creating the initial prompting structure** for generating articles and contributing **unit tests in PHP/Laravel** for the backend API.
- Maintained development environments using **Docker** for local repositories and ensured continuous delivery and repository syncing by running **CI/CD pipelines** (Bitbucket Pipelines) and utilizing **Python scripting** across **200+ related repositories**.

Full Stack Developer *(React, NodeJs, MySQL)* **| Spenser App Inc |** . **Remote Dec 2022 – May 2025**
- Built a **vending machine discovery platform** combining geospatial lookups, category prediction, and business intelligence to identify likely machine locations across cities.
- Built a **Next.js frontend** with category filters, pagination, semantic search, and sidebar navigation for exploring machine types, brands, and business locations.
- Developed a **data ingestion pipeline** using Node.js, Medusa, TypeORM, and CSV bulk uploads to import thousands of businesses, geocode addresses, and attach machine metadata
- Created an automated pipeline to **scrape product pages**, extract machine attributes, detect duplicates, and save structured machine JSON files powered entirely by LLM logic.
- Implemented AI-driven **RAG search** using Haystack, Weaviate, and Llama/Ollama to answer product questions, compare machines, and cluster similar vending models from scraped PDFs and websites.

Full Stack Developer *(VueJS, MySQL, NodeJS)* **| Birchnotes (Therapax) |** . **Remote May 2021 – Dec 2022**
- Built and maintained a library of **reusable Vue.js components** to accelerate development for junior engineers and ensure UI consistency across the application.
- Collaborated with the CTO on **database schema design**, performance considerations, and architectural decision-making for new features.
- Designed and implemented a **file upload and storage system**, including folder structure conventions and metadata handling
- Extended the capabilities of **Knex.js** to support more flexible MySQL querying and improve developer ergonomics across the backend.
- Built robust **PDF generation workflows** for customer forms, integrating backend logic with template-driven rendering.
- Developed **migration scripts** to seamlessly move assets from Cloudinary to AWS S3 using the Cloudinary and AWS SDKs.

Full Stack Developer *(React, MySQL, PHP, Laravel, VueJS, WordPress)* **| Bizzynate Creative |** . **August 2020 – May 2021**
- Developed a **custom CMS** enabling non-technical clients to build and edit pages on tracker.votingrightslab.org, including dynamic routing integrated with Vue Router.
- Built an **admin panel** for clients to manage content and data independently, reducing engineering overhead.
- Created custom **WordPress plugins** using React and PHP to extend client website functionality.
- Built **filterable, mobile-responsive data tables** using Vue.js to improve usability and accessibility.
- Provided ongoing support for multiple client websites, including troubleshooting, enhancements, and performance improvements.
- Ensured **WCAG-compliant accessibility** for stpaulfcu.org and other client projects.
- Implemented **shareable short-link generation** to simplify user sharing flows across the platform.

Full Stack Developer *(AngularJS, MongoDB, NodeJS, React, Redux)* **| Carnahan Group |** . **April 2019 – May 2020**
- Built **reusable AngularJS components** to streamline form creation across multiple pages and improve code consistency.
- Developed **PDF generation workflows** using Node.js and Puppeteer, rendering EJS templates into production-ready documents.
- Collaborated directly with the CEO and Product Owner, contributing to feature planning, design reviews, and delivery timelines.
- Created **automation tools** to auto-populate Excel reports, reducing manual effort and improving operational efficiency.
- Implemented new product features using **React**, including dynamic tables, forms, and admin-facing UI components.
- Integrated the **NPPES Registry API** to retrieve physician data and automate provider lookup processes.

Full Stack Mobile Developer *(Swift 3, Firebase, MySQL, MongoDB, Selenium (Python))* **| Sapien Solutions |** . **June 2017 – May 2018**
- Developed multiple **iOS mobile applications** for clients, each tailored to unique business requirements and feature sets.

- Created **wireframes and navigational flows** including scrollable list views, table/collection cells, and interactive UI elements.
- Implemented **game logic algorithms** for projects involving real-time mechanics and dynamic user interactions.
- Integrated **GPS tracking and Google Maps** for location-based features and in-app geospatial functionality.
- Utilized **Firebase Realtime Database** for live game rooms, chat rooms, presence tracking, and proximity-based user detection.
- Built location-aware features that **ping nearby users** based on stored coordinates in Firebase or database sources.
- Performed **web scraping with Selenium (Python)** to extract data from complex DOM structures and store results in MySQL

Education
University of Central Florida | Orlando,, FL | *2016* | Bachelor of Science in Computer Science | *Focus: Programming*

Valencia Community College | *Orlando, FL* | Associate of Computer Science | *Focus: Programming*

Certificates
- PL/SQL 11g 2014

Courses:
- **University of Central Florida, Programming Bootcamp**

References
Professional References and Written Recommendations available upon request, and viewable directly on my LinkedIn profile.