

TONY MARTINEZ

Frontend Software Engineer — Portland, OR | (971) 291-2231

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SUMMARY

Frontend Software Engineer with 3+ years building production-grade web applications, published browser extensions, and AI-powered multimodal interfaces. Experienced across the full stack — React and Next.js on the client, Node.js and MongoDB on the server, and real-device cross-platform debugging at the Safari Web Inspector level. Known for shipping with automated CI/CD, writing testable code, and treating architecture as a first-class concern.

EXPERIENCE

Frontend Software Engineer — Freelance · Portland, OR · Feb 2022 – Present

- Designed and built full-stack web applications for small business clients using **React, Next.js 15, TypeScript, and Node.js** — from initial wireframes through Vercel deployment.
- Integrated AI APIs (Gemini, OpenAI, MediaPipe) into a production multimodal analytics platform, including **real-time SSE token streaming** and off-main-thread facial sentiment inference running in **Web Workers** with a shared WebGL context to maintain 60fps under inference load.
- Published a **Chrome Extension to the Chrome Web Store** (Manifest V3), building a state-sync engine using **chrome.storage.local** and runtime messaging to guarantee zero data loss across ephemeral service worker lifecycles.
- Debugged cross-platform camera enumeration, WebGL context sharing, and WASM asset resolution failures on a **physical iOS device via Safari Web Inspector over an ngrok tunnel** — issues that simulators could not reproduce.
- Established **CI/CD pipelines with GitHub Actions and Husky**, enforcing automated unit tests (Jest, Vitest) and accessibility audits on every pull request before merge.
- Achieved **100/100 Core Web Vitals** on client-facing applications; consistently targeted sub-500ms TTI using Next.js 15 Edge runtime.

PROJECTS

AptivAi — Multimodal AI Analytics Platform github.com/Tony5897/aptiv-analytics

React · TypeScript · Node.js · MongoDB · Firebase · Gemini API · MediaPipe · Google Cloud TTS | In Progress

Full-stack email marketing analytics platform with Gemini-powered SSE chat streaming, voice I/O via Web Audio API + Google Cloud TTS, and real-time emotional impact scoring using MediaPipe FaceLandmarker running in a Web Worker with a shared WebGL context. Validated live on a physical iPhone via Safari Web Inspector.

Portland Timbers Matchday — Published Chrome Extension [Chrome Web Store](https://chrome.google.com/webstore/detail/chrome-extension-portland-timbers-matchday)

github.com/Tony5897/timbers-chrome-ext *JavaScript · Chrome MV3 · Jest · GitHub Actions*

Published Manifest V3 extension surfacing match data and fan features for Portland Timbers supporters. State-sync engine using **chrome.storage.local** and runtime messaging ensures zero data loss across service worker hibernation cycles. Zero-touch CI/CD — a push to main ships to production automatically.

OfferEngine — Zero-Backend Coupon Generator coupon-generator-liard.vercel.app

github.com/Tony5897/coupon-generator *Next.js 15 · TypeScript · Tailwind CSS · Vitest · GitHub Actions*

Oregon Lawn Barbers — Client Site oregonlawnbarbers.com *Next.js · TypeScript · Tailwind CSS · Vercel*

SKILLS

Languages: TypeScript, JavaScript, Python, HTML5, CSS3, C++, Swift

Frameworks: React 19, Next.js 15, Node.js, Express, Tailwind CSS, WordPress

AI & Inference: Gemini, OpenAI, MediaPipe, Claude, SSE Streaming, Web Workers, WebGL

Databases: MongoDB, PostgreSQL, Firebase, localStorage

Browser Platform: Chrome MV3, Web Audio API, Safari Web Inspector, Shadow DOM, MutationObserver

DevOps & Tools: Git, GitHub Actions, Husky, Vitest, Jest, Vercel, ngrok, Figma, Cursor, Jira

Practices: CI/CD, TDD, Agile/Scrum, Accessibility (WCAG), Cross-Browser & Real-Device Testing