Joel Rivera
Senior Front-End Engineer, AI
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Professional Statement

I have a decade of experience leading and executing web development projects with a focus on crafting high-quality, accessible user experiences. I have expertise in TypeScript, React, and AI integration, with a passion for learning and design-driven development.

Professional Development

Self-Taught Engineer: I learned and mastered web development and best practices independently through online courses, tutorials, side projects, and real-world professional experience. I regularly update my skills and knowledge on the latest in front-end technology, AI, and design.

Technical Skills

- **Languages:** HTML, CSS, JavaScript, TypeScript, Node
- **Frameworks:** React, Next.js, Remix, SvelteKit, TailwindCSS, Express
- **Testing:** Jest, React Testing Library, Cypress
- **Databases:** Postgres (basics), Supabase, MongoDB
- **Cloud:** IBM Cloud, IBM Continuous Delivery, Vercel, Github Actions
- **AI:** IBM Watson, OpenAI (ChatGPT API)

Professional Experience

Endava, Development Lead, Jul 2021 - Feb 2024

- Fostered a culture of continuous learning, knowledge sharing, and mentorship for junior to mid-level front-end developers.

- Led comprehensive code review processes to uphold high-quality standards, best practices, and cohesive code styling across all client engagements.

- Defined and established testing best practices, documentation, and code examples for the Lineage Logistics web apps team. Increased code coverage from 0 to ~10% within 30 days.

IBM, Senior Front-End Engineer, May 2015 - Feb 2021

- Designed and developed flagship Watson AI product demos for several APIs (STT, NLU, Assistant), contributing to over 6MM in new client revenue.

- Built custom Watson AI-powered prototypes and proof-of-concepts (POCs) on the IBM Cloud, addressing unique business problems for partners across various industries.

Morgan Stanley, Front-End Developer, Jan 2014 - Dec 2014

- Built user-friendly front-end interfaces using HTML, CSS, and JavaScript to enhance user experience and meet the business requirements of Morgan Stanley's financial services applications.

- Developed internal microsites, published quarterly earnings reports, and maintained morganstanley.com in production.

Personal Side Projects

CoPalette

Designed and built an AI-powered assistant that generates and customizes color palettes based on the sentiment analysis from user input, for brand professionals and marketers.

- Tech Stack: Next.js, TypeScript, Tailwindcss, Vercel AI SDK, Supabase
- Built the sentiment analysis and palette generation using ChatGPT API
- Built a responsive, user-friendly UI/UX with Next.js, Tailwindcss, Shadcn/UI
- Built CRUD API abstractions for Supabase with React server actions
- Persisted chat messages in Vercel KV store

ChatGPTx

Built a ChatGPT clone to improve personal proficiency in advanced web technologies and to deepen my understanding of real-time, AI-powered user interfaces.

- Tech Stack: Remix, TypeScript, Tailwindcss, Vercel AI SDK, Indexed DB
- Built real-time, streaming text responses with the Vercel AI SDK
- Built a responsive, user-friendly UI/UX with Remix, Tailwindcss, Shadcn/UI
- Persisted chat threads in Indexed DB