

Emmanuel Francis Ramos

Senior Frontend Engineer

Frontend • AI-Native Development • React • TypeScript • Architecture

SUMMARY

Senior Frontend Engineer with 9+ years of experience building scalable enterprise, startup, and Web3 applications. Specializes in React, TypeScript, frontend architecture, design systems, and AI-native engineering workflows.

EXPERIENCE

CoDev — Senior Frontend Engineer

February 2022 - Present

Projects: Odin.fun, Toniq, Bioniq

- Built and maintained large-scale React/TypeScript Web3 applications, delivering design systems, application theming, internationalization (i18n), and blockchain integrations (ICP canisters) from concept through production.
- Established AI-native engineering workflows using Claude Code to accelerate feature implementation, refactoring, debugging, testing, documentation, and code reviews.
- Designed repository context through CLAUDE.md, ARCHITECTURE.md, and AGENTS.md, enabling AI agents to navigate complex codebases and produce higher-quality, more consistent implementations.
- Introduced specification-driven development using SPEC.md, PLAN.md, and TASK.md, standardizing feature planning, reducing implementation ambiguity, and enabling AI-assisted development with minimal supervision.
- Developed reusable prompts, custom Claude skills, and MCP integrations to standardize engineering workflows and improve developer productivity across projects.
- Partnered with product managers, designers, and backend engineers to deliver scalable, production-ready features while contributing to architecture discussions and long-term maintainability.

Technologies: React, TypeScript, Tailwind CSS, ICP, Web3, Claude Code, MCP

Freelance (Beyond Bytes, Benusoft, CodingChief) — Frontend Developer

November 2020 - December 2021

- Built and maintained React and Vue applications, delivering frontend features, API integrations, and UI improvements for multiple clients.

Technologies: Nuxt.js, Vue.js, React, TypeScript, Tailwind CSS

TRR Technologies / XDevs — Creative Technologist

July 2018 - February 2021

Projects: Singapore Airlines, Singapore Biennale, Caltex, I2D2 (KYC/AML), Palantir, Hard Hat Asia, All Range Trucks

- Modernized enterprise applications and delivered customer-facing websites, marketplaces, and internal platforms across aviation, banking, logistics, retail, and government sectors.
- Collaborated with designers and backend engineers to deliver responsive, production-ready applications using Vue.js, Nuxt.js, and TypeScript.

Technologies: Nuxt.js, Vue.js, TypeScript, Tailwind CSS

Xerkit — Software Engineer

August 2017 - July 2018

- Developed a NativeScript mobile application for an IoT automotive platform, enabling remote ignition, air-conditioning, and vehicle access control.



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CORE EXPERTISE

AI-Native Software Engineering

Frontend Architecture & Design Systems

React, Vue & TypeScript Applications

Performance, Accessibility & i18n

Technical Leadership & Cross-functional Collaboration

SKILLS

AI Engineering: Claude Code, OpenAI Codex, GitHub Copilot, Cursor, Context Engineering, Agentic Development, Specification-Driven Development, MCP Integrations, AI Workflow Design, AI Code Review, AI Refactoring

Frontend: React, TypeScript, Next.js, Vue, Nuxt, Tailwind, PWA, Redux, Pinia, Zustand, React Query, TanStack Query, shadcn/ui, Vite, Vitest, Playwright, Storybook, ESLint, Prettier, REST APIs

Architecture: Monorepo, Turborepo, Design Systems, Offline-first Architecture, State Management, API Design, Feature Driven Design, Performance Optimization, Accessibility, Internationalization

Cloud & DevOps: GitHub Actions, Vercel, Netlify, Cloudflare, Docker, npm, pnpm, CI/CD, Git, GitHub

EDUCATION

University of Science and Technology of Southern Philippines — B.S. Computer Engineering

June 2011 - April 2017

C.M. Recto Ave., Lapasan, Cagayan de Oro City, Philippines, 9000