

Ryan Calacsan

Full-Stack Engineer

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TECHNICAL SKILLS

Frontend	React, Next.js 15, TypeScript, JavaScript, Tailwind CSS, HTML5, CSS3
Backend	Node.js, PostgreSQL, REST APIs, Drizzle ORM, Zod
Infrastructure	Docker, Supabase, Nginx, Git, GitHub Actions, Vitest
Integrations	Stripe, Salesforce, Clerk Auth

EXPERIENCE

Principal Engineer · PrintNinja · Mar 2025 – Jan 2026

- Built entire modern technology stack from scratch as sole engineer—200,000+ line full-stack platform using Next.js, React, TypeScript, and PostgreSQL
- Migrated legacy PHP pricing engine (500+ variables, 4 product lines) to TypeScript with 100% mathematical parity, verified by 80+ automated tests
- Achieved 100x performance improvement on pricing calculations (11.47s → <100ms) through LRU caching
- Integrated Stripe payment processing with webhook idempotency and Salesforce CRM sync with 60+ field mappings
- Introduced engineering practices: Git version control, 290+ documentation files, Docker deployment with Nginx and rollback

Studio Manager · KH Photography · 2015 – 2020

- Managed studio operations including digital asset workflows, production scheduling, and client relations

Freelance Photographer · Ryan Calacsan Photography · 2009 – 2025

- Published work in Trails Magazine and Mountain Gazette; strong visual communication and project management

PROJECTS

print-check-cli — [Published npm package](#)

CLI tool for validating print-ready PDFs. 8 automated checks (bleed, fonts, color space, resolution, ink coverage, transparency). Built-in profiles, config file support, JSON output for CI. Node.js, TypeScript, Commander.js, mupdf, Vitest.

GoVan — Van rental platform with Firestore, data visualization, responsive design

AI Chef — Recipe generator using Hugging Face Mistral AI, built with React and Vite

EDUCATION

B.S. Biology — University of Illinois at Chicago

Frontend Developer Career Path — Scrimba (partnered with MDN)