

# JAKKRIT TURNER

## Full-Stack React / Next.js Developer

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Full-Stack React / Next.js Developer (4+ years) specializing in TypeScript, modern React, and custom PostgreSQL backends with secure mTLS/pgBouncer setups. I build apps end-to-end, covering UX, frontend, APIs, database, auth, Stripe payments, and R2-style object storage, and document my work through a large tutorial library. Currently seeking React/Next.js roles where I can own complex features from idea to production and help ship reliable, well-designed products.

## PROJECTS & EXPERIENCE

### FrontRacer – Social Voting & Comparison Platform (Ongoing)

*Next.js · Payload CMS · PostgreSQL · Cloudflare R2 · Google OAuth · TanStack Query*

- Created a social comparison app where users repeatedly vote between pairs of choices until one champion remains, then view aggregate stats.
- Designed a pairing algorithm that seeds and rotates choices, handles BYEs for odd counts, and records deterministic rounds and pairs in each vote session.
- Modeled RacePosts and VoteSessions in Payload with completion histories and per-choice stats (champion, win, loss counts, total completions).
- Implemented concurrency-safe stat aggregation using locked API routes that apply or revert stats based on a vote session's history, protecting against race conditions.
- Integrated Google OAuth and internal proxy API routes secured by a shared secret header to keep direct CMS endpoints private.

### VAST Original – Men's Grooming eCommerce (Ongoing)

*Next.js · Payload CMS · PostgreSQL · Stripe · Cloudflare R2 · Nodemailer · TanStack Query · Zustand*

- Built a full-stack eCommerce platform with product catalog, cart, checkout, and CMS-driven blog.
- Implemented a Stripe PaymentIntent + webhook flow that converts carts into Orders with snapshots of products, shipping, and payment metadata.
- Designed Payload collections for users, profiles, carts, orders, products, and media with hooks for slug generation, auto-linked profiles/carts, alt-text population, and role-based access control.
- Configured Cloudflare R2 for media storage with presigned upload URLs and blur image placeholders for fast perceived performance.
- Used TanStack Query + Zustand for cart and user state, including optimistic cart updates and a global notification system.

### jkturner.site – Personal Site & Tutorial Knowledge Base (Ongoing)

*Next.js · TypeScript · Tailwind CSS · MDX · Shiki / rehype-pretty-code*

- Built a personal site that doubles as a documentation platform with 90+ MDX tutorials on React, Next.js, Payload, Cloudflare, Stripe, Gemini API, and more.
- Implemented a custom MDX pipeline with remark/rehype plugins, Shiki syntax highlighting, and a rich component set (CodeBlock, ReasonBlock, ErrorBlock, CodeExplain, filters, auto-generated side menus).
- Created filesystem-driven routing and grouping utilities to automatically generate tutorial navigation by category and subcategory.
- Documented real implementation work step by step (e.g., Stripe setup, R2 integration, auth flows), demonstrating strong teaching and documentation skills.

### Next-Showcase – Interactive Next.js Demo Playground (Ongoing)

*Next.js · TypeScript · TanStack Query · Zustand · Nodemailer*

- Built a live demo site where visitors can interact with real features: full auth flow, email testing, pagination, search, lazy loading, infinite scroll, and multiple React Query patterns.
- Designed the project specifically to show how I structure real applications, from folder organization and data fetching to UX, component design, and error handling.

### Freelance Full-Stack React / Next.js Developer · Remote · 2021 – Present

- Design and build end-to-end web applications, from UI/UX and React components to API design, database schema, and deployment.
- Implement secure PostgreSQL backends with pgBouncer and mTLS, integrating Payload CMS, Stripe, Cloudflare R2, and custom Next.js APIs.
- Work directly with stakeholders (or self-driven product goals) to define scope, prioritize features, and iterate quickly while maintaining code quality and documentation.

### Freelance Web Developer, Designer, and Marketer · 2019 – 2021

- Built smaller marketing sites and company profiles, handled UX/UI design, branding, and SEO-conscious content.
- Applied project management and marketing skills to plan, launch, and iterate on client projects.

## SKILLS

### Frontend & UX

- React, Next.js (App Router), TypeScript, JavaScript (ES6+), HTML, CSS
- Tailwind CSS, shadcn/ui, Embla Carousel, CSS animations
- TanStack Query, Zustand, REST APIs, responsive design, accessibility-aware layouts
- MDX content systems, custom markdown components, syntax highlighting (Shiki / rehype-pretty-code)

### Backend & Infrastructure

- Node.js, Next.js API routes, Payload CMS (collections, hooks, access control)
- PostgreSQL, pgAdmin, pgBouncer, mTLS handshakes (client/server certs) for secure DB access
- Cloudflare R2 (S3-compatible), presigned uploads, image processing, blur image pipelines (Sharp)
- Stripe (PaymentIntents, webhooks, orders), Nodemailer (email verification, password reset, contact forms)
- Authentication: email/password, email verification, Google OAuth, role-based access control

### Design

- Figma, design systems, UI/UX, Adobe Photoshop

### Languages

- Thai: Native
- English: Fluent

## EDUCATION & CERTIFICATIONS

**B.S. in Business Administration** (Project Management) – Purdue University Global, USA – 2023

- Additional coursework in marketing and analytics; self-studied web development alongside degree.

### Selected Certificates

- ITIL Foundation Certificate in IT Service Management – PeopleCert
- Marketing Analytics – University of Virginia
- Viral Marketing & How to Craft Contagious Content – Wharton (University of Pennsylvania)