

Christopher Karkut

Full Stack Developer | Typescript | Node | React

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[Portfolio](#)

[Github](#)

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Entrepreneur & Developer | 2020 – Present

Full Stack Developer at The Flood Team | 02/2022 – Present

KutSolutions | 07/2024 - Present

Full Stack Development & Product Collaboration

- **Full Stack Engineering:** Built and shipped features across frontend and backend in fast-paced startup environment, wearing multiple hats including front and backend development, DevOps, security, support, and design.
- **Database Performance Engineering:** Optimized SQL and NoSQL database performance through advanced query optimization and indexing strategies, dramatically improving API response times.
- **Payment System Architecture:** Developed and maintained a comprehensive Stripe-integrated payment system supporting subscriptions, webhook-based event handling, and secure transaction processing.

DevOps & Infrastructure Leadership

- **CI/CD Pipeline Engineering:** Implemented robust CI/CD pipelines that virtually eliminated deployment failures.
- **API Security & Rate Limiting:** Built Express middleware for rate limiting and authentication controls, protecting against abuse and ensuring secure API access patterns.
- **Security & Compliance:** Implemented OAuth 2.0 authentication and role-based middleware that strengthened security posture and achieved compliance requirements for sensitive customer data.

Technical Leadership & Performance Engineering

- **Legacy System Modernization:** Architected and executed migration of mission-critical legacy systems to modern stack, maintaining seamless backward compatibility and dramatically reducing technical debt.
- **Technical Leadership & Mentorship:** Built standardized component libraries while mentoring junior developers and teaching web development courses, ensuring code quality and team growth.
- **React Performance Optimization:** Refactored component architecture and state management logic to eliminate unnecessary re-renders, resulting in substantially improved application performance.

Core Technical Skills

- **Languages & Frameworks:** JavaScript, TypeScript, React, Node.js, Express, HTML5, CSS3, Tailwind
- **Databases:** NoSQL, MongoDB, PostgreSQL, MySQL
- **DevOps & Security:** GitHub CI/CD, HTTP protocols, OAuth 2.0, Stripe payments, API security
- **Development Practices:** Test-driven development (Jest, ViTest, Cypress), Agile/Scrum methodology, mentorship

Education and Certification

- **Texas McCombs Great Learning:** Professional Certificate in Full Stack Software Development (MERN) stack
- **FreeCodeCamp:** JavaScript Algorithms & Data Structures, Responsive Web Design

Key Projects

- **[CJ's Pick-List](#)** – Shopping management app with optimized state management (React, Zustand, Tailwind)
- **[Spider Lily Suite](#)** - Complete business solution including marketing site and payment-enabled web app (Astro, React, Stripe)
- **[Consent Companion Suite](#)** - Universal SaaS tool derived from Spider Lily client work, offering streamlined functionality for broader market adoption (React, Node.js)
- **[E-commerce Platform](#)** – e-commerce example using Redux (React, Redux, TypeScript, Node.js)