

# Christopher Karkut

Full Stack Developer | Typescript | Node | React | GCP

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[Portfolio](#)

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

### Frontend Excellence

- **React Optimization:** Reduced page load times by 40% by implementing code splitting and lazy loading techniques in React components, improving user retention for critical customer-facing applications.
- **Reusable Component Set:** Designed and deployed a modular component set, cutting new feature development time by 20% and reducing redundant code by 15%, improving maintainability and scalability.
- **PWA Implementation:** Created a Progressive Web App that increased mobile user engagement by 35% and enabled offline functionality for field technicians working in remote locations.
- **Performance Engineering:** Eliminated render bottlenecks by strategically implementing React Context and Zustand, resulting in 60% faster state updates across complex UI components.

### Technical Leadership

- **CI/CD Pipeline Automation:** Built Github CI/CD pipeline that reduced deployment errors by 90% and cut release time in half, enabling weekly feature deployments.
- **Component Library Standardization:** Led initiative to create a standalone StencilJS component library that unified UX across 3 product lines and eliminated design inconsistencies.
- **Legacy System Migration:** Successfully transitioned critical legacy UI components to modern StencilJS architecture while maintaining backward compatibility, reducing maintenance costs by 35%.
- **Agile Development:** Led and participated in Agile development cycles, including sprint planning, daily stand-ups, and retrospectives using Scrum methodology.

### Backend & Infrastructure

- **Serverless Architecture:** Migrated monolithic API to GCP serverless solutions, reducing infrastructure costs by 45% while improving scalability during peak traffic periods.
- **API Security Overhaul:** Implemented OAuth 2.0 and role-based middleware that strengthened security posture and achieved compliance requirements while maintaining API response times.
- **Parallelized NoSQL Fetching** – Optimized database performance by restructuring NoSQL queries to run concurrently, reducing data fetch times between **40-60%** and improving API responsiveness under high load.
- **Payment & Subscription Management:** Developed and maintained a Stripe-integrated payment system, supporting subscriptions and webhook-based event handling.
- **Twilio Integration:** Implemented Twilio APIs for SMS and voice notifications, enhancing user engagement and automated communication workflows.

### Technical Skills

- **Frontend:** HTML5, CSS3, Sass, JavaScript, TypeScript, JSX, React, React Native, StencilJS, Astro, NextJS, Tailwind CSS, Bootstrap, PWA, SSR
- **State & Data:** Redux, React Context, Zustand, GraphQL, RESTful APIs
- **Backend:** Node.js, Express, GCP Serverless, Firebase, MongoDB, SQL, NoSQL
- **DevOps & Tools:** GitHub, Jest, Vitest, Storybook, Cypress, Figma, Stripe
- **Design Patterns:** Factory, Singleton, Observer, Component-Based Architecture

### Education and Certifications

#### TexasMcCombs Great Learning

Professional Certificate in Full Stack Software Development  
(MERN stack)

#### FreeCodeCamp

Responsive Web Design Certification

Javascript Algorithms and Data Structures certification

### My Projects

[Pick-List](#) - [Github](#)

(Vite, React, Typescript, Tailwind, Zustand)

[Consent Companion Web App](#)

(React, Tailwind, Node, GCP)

[E-commerce App](#) - [GitHub](#)

(React, Redux, Typescript, Node, Tailwind, GCP)