Christopher Karkut

Full Stack Developer | Typescript | Node | React | GCP

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Portfolio   Github   Linkedin

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.

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)