Christopher Tse

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Skills

Languages: TypeScript, JavaScript, HTML5, CSS3, Python, Java, SQL, Go, C
Tools: React, Redux, Svelte, Node.js, Next.js, NestJS, GraphQL, Jest, React Testing Library, Tailwind, Express, PostgreSQL
Japanese: Japanese Language Proficiency Test (JLPT) N2

Experience

Software Engineer II, Rent. at Redfin – Remote (Atlanta, GA)   **April 2021 – Present**
- Conducted performance audits and implemented improvements that reduced Interaction to Next Paint (INP) metrics by approximately 80%. Enhanced website responsiveness, improved user experience and boosted search engine rankings via Google's Core Web Vitals scores
- Delivered technical talk to engineering team about performance optimization methods and strategies via React 18 Transitions and thread scheduling techniques
- Migrated legacy in-house SSR React application into Next.js, unifying architecture for multiple brands' apps into one and reducing effective feature release time by 50%
- Integrated machine learning search and sort capabilities resulting in a 10% increase in lead conversion
- Debugged and resolved critical memory leaks and performance issues in the GraphQL gateway, preventing Kubernetes pod crashes and ensuring stable service delivery
- Modernized existing B2B platform from Salesforce to SvelteKit, enabling more flexibility in implementing custom features to enhance user experience increasing monthly active users

Software Engineer, Oracle Netsuite – Oklahoma City, OK   **Mar 2019 – Apr 2021**
- Led initiative to adopt React Hooks across the team, improving code reusability, readability, and maintainability
- Implemented comprehensive testing strategies using Jest, Sinon, and Enzyme, achieving and maintaining over 90% test coverage for new and existing features, significantly reducing production bugs
- Architected and evaluated prototype code for a custom React framework, authored technical proposals, and drove R&D efforts to optimize the next-generation in-house application infrastructure

Lead Developer / Technical Consultant, OK Catalyst at Tom Love Innovation Hub – Norman, OK   **Feb 2018 – Dec 2018**
- Developed a custom centralized solution to manage information for over 3000 SBIR government contracts and facilitate applicant matching server-rendered application
- Provided expert consultation to faculty, students, and clients on app development, startup ideas, requirements analysis, use case definition, and technology stack selection to enable informed decision-making and successful project initiations

Web Developer, a la mode, inc.– Oklahoma City, OK   **Oct 2015 – Sep 2016**
- Designed and implemented 10 mobile-friendly, responsive website templates using Bootstrap 3, successfully replacing legacy Flash-based templates and improving overall mobile accessibility
- Coordinated with web design and sales teams to upgrade customer sites, while communicating directly with clients via Zendesk to address custom design needs and provide guidance on platform capabilities

Projects

freeCodeCamp Oklahoma Co-Organizer, Techlahoma Foundation   2017-2021
- Led community engagement initiatives as co-organizer, including coordinating meetups, delivering technical talks, and mentoring beginners at non-profit coding workshops

Education

University of Oklahoma – BS in Computer Science   Dec 2018