

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

Website Developer, 電気通信大学 – Chofu, Japan

Oct 2015 – Sep 2016

- 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

May 2014 – Sep 2015

- Designed and implemented 10 mobile-friendly, responsive website templates using Bootstrap 3, successfully replacing legacy Flash-based templates and improving overall mobile accessibility
- Implemented a live theme editor for demoing how the templates could be customized live for use by the sales team, increasing prospective customer interest and conversion rate

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