

# Christopher Tse

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## Skills

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**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

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**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. Fostered culture being mindful of performance by delivering 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 to Next.js while implementing accessible patterns and integrating with the company design system, unifying architecture for multiple brands and reducing feature delivery time by 50% across all teams
- 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**, University of Electro-Communications – Chofu, Japan

**Oct 2015 – Sep 2016**

- Developed a website for an international conference to provide relevant information and take form submissions and save the data to the server
- Implemented form handling and submission using PHP

**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

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**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

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**University of Oklahoma** – BS in Computer Science

**Dec 2018**