

Chihiro Snider - Software Engineer

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Technical Skills

JavaScript (ES6+), TypeScript, React(Hooks, Context, Router), Redux, CSS & Sass, Flexbox, Figma, HTML, Chakra, Styled Components, Next.js, Vercel, Netlify, GitHub Pages, GitHub Actions, Vite, Node.js, Express, SQL (PostgreSQL), NoSQL (MongoDB), Redis, Docker, AWS (EC2, Elastic BeanStalk), Version Control (Git/Github), ArcGIS API, Testing (Jest, React Testing Library)

Experience

RediScope || Software Engineer : 2022 - Present || www.rediscope.com

A web application that visualizes Redis cache performance metrics such as cache hit ratio, memory usage, evicted keys, and more

- Used React and Chart.js to create a dashboard of Redis metrics in real-time where users can set desired intervals and data points
- Used TypeScript to reduce post-deployment errors to provide type safety, compile-time error checks, and legibility to JavaScript
- Implemented PostgreSQL database to store user data and Redis URLs to create an unchanging and ACID-compliant environment allowing secure and fast query processing
- Utilized React hooks to store fetched Redis metrics in global state allowing access to the data from multiple graph component to render data
- Created a dashboard design with the styled-components library to allow concurrent server-side rendering with stylesheet rehydration, eliminating the need to use CSS classes in React components
- Deployed the application using Docker and EC2, allowing users to access from any machine and any location in a secure and consistent way
- Integrated user signup and log-in feature by creating middlewares using Node, PostgreSQL, and Bcrypt to protect users against brute force attacks
- Product developed under OS Labs (opensource.labs.io)

Professional Musician || Percussionist, Timpanist, Non-profit Co-Founder: 2003 - 2021

- Highlights: Performed with *Miss Saigon*, *West Side Story* on Broadway, *Radio City Christmas Spectacular*; the Metropolitan Opera, Kansas City Symphony, San Diego Symphony, appeared on *Good Morning America* with John Legend and Common, *Mozart in the Jungle (Amazon Prime)*
- Co-founded and operated a non-profit music organization, Multicultural Sonic Evolution and produced over 100 concerts

Projects

Freelance || Software Engineer : 2022 - Present || www.chihiro-snider.io

Portfolio Website || A web application to showcase projects

- Designed and created a static web application using React, TypeScript, and Next.js allowing SEO-friendly and fast server-side rendering
- Used Chakra UI to create reusable styling to make the site responsive, cohesive, and change between light and dark color mode
- Deployed the site using Vercel for seamless integration with Github with automatic compilation and deployment after every merge request anabeling CI/CD pipeline

Places You'll Go || A web application to keep track of dream destinations and visualize them on a map using ArcGIS API

- Integrated and displayed an interactive world map using ArcGIS API with features to locate a city directly from user input and place graphics on the map instantly
- Used React and React hooks to build reusable and modular components to allow unidirectional data flow
- Architected Node.js/Express server to efficiently handle HTTP requests by using middlewares to optimize throughput and scalability
- Created a MongoDB server and designed schemas to best handle geolocation and user input data used in the app
- Used CSS, flexbox, and a color palette to design and create a visually cohesive design and a responsive layout

Localization Example || <https://localization-example.netlify.app> || A web application to demonstrate good software l10n (Localization) practice Created as a resource for a lecture for other engineers ([lecture video](#))

- Used React and Vite to create an example of best practices for localizing an English website to Spanish and Japanese by modularizing translated strings to allow for scalability and flexibility
- Gave a presentation on l10n for a group of software engineers along with documentation and a GitHub repository example
- Deployed the site using Netlify with seamless integration with GitHub allowing automatic updates when changes are detected

Moodswings || A web application for personal journal entries that adds a mood tracker graph view of your mental state over time

- Created reusable components and hooks using React to manage different states
- Utilized React Router to enable seamless transition, allowing users to easily navigate between pages without reloading in a single page application
- Visualized user's mood scale data over time using React-Chart.js for seamless integration between React components and retrieved data
- Wrote tests using Jest and React Testing Library to ensure an error-free Node.js server-side connection and React frontend rendering

Interest

Cooking new recipes from *New York Times Cooking*, practicing yoga, mindfulness meditation, playing marimba and percussion, and Wordle

Education

The Juilliard School, New York City, NY

Bachelor of Music || Percussion Performance

Master of Music || Percussion Performance