

# 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), CI/CD pipeline

## Experience

**RediScope** || Software Engineer : 2022 - Present || [www.rediscope.com](http://www.rediscope.com)

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

- Created a dashboard of **Redis** metrics in real-time with **React** and **Chart.js** 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 (opensourcelabs.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](http://www.chihiro-snider.io)

**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
- Built reusable and modular components with **React** and **React hooks** 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
- Designed and created a visually cohesive UI and a responsive layout with **CSS**, **flexbox**, and a color palette

**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 a **CI/CD pipeline** 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

**Portfolio Website** || A web application to showcase projects || [www.chihiro-snider.io](http://www.chihiro-snider.io)

- 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**

## 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