

# Chihiro Snider - Software Engineer

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## Experience

**Roundhouse Designs** || Software Engineer Intern : 2023-Present || [www.roundhouse-designs.com](http://www.roundhouse-designs.com)

Contributed to a job board application to connect entertainment workers and employers, anticipating hundreds of active users upon launch

- Developed a functionality to reorder user's past work credits list upon clicking up/down icon with **React**, **TypeScript**, and **Chakra.ui**
- Integrated **Chakra.ui**'s AlertDialog component library to confirm deletion of a past work credit

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

OS Labs ([opensource.labs.io](https://opensource.labs.io)) web application that visualizes Redis cache performance metrics (cache hit ratio, memory usage) - 68 stars on GitHub repository

- Developed a dashboard of **Redis** metrics in real-time with **React** and **Chart.js** where users can set desired intervals and data points
- Drove the decision to use **TypeScript** over JavaScript to reduce post-deployment errors to provide type safety, and legibility
- Implemented **PostgreSQL** database to store user data and Redis URLs to create an unchanging and ACID-compliant environment
- 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, 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/ log-in feature by creating middleware using **Node**, **PostgreSQL**, and **Bcrypt** to protect users against brute force attacks

**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

**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
- 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** || [localization-example.netlify.app](http://localization-example.netlify.app) || A web application to demonstrate good software i18n (Localization) practice

- Developed an example of best practices for localizing by modularizing translated strings to allow for scalability and flexibility with **React** and **Vite**
- Presented a [lecture](#) on **i18n** for a group of over 50 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

- Developed 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
- 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 & articles || [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 enabling **CI/CD pipeline**

## Articles

- "Deploy a React Vite app using GitHub Actions and GitHub Pages" on Medium || [Article Link](#)
- "How to install Anaconda for MacOS" on Medium || [Article Link](#)

## Technical Skills

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

## Interest

Cooking new recipes, practicing yoga, mindfulness meditation, playing marimba and percussion, teaching music, and Wordle.

Bilingual in Japanese and English.

## Education

**Codesmith**

Software Engineering Immersive

**The Juilliard School, New York City, NY**

Bachelor of Music & Master of Music || Percussion Performance