

Joanna Chen

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Skills JavaScript, TypeScript, Ruby, Python, SQL, C#, HTML5, CSS3, React, Redux, Next.js, Gatsby, Node.js, Ruby on Rails, Git, Jira, MongoDB, PostgreSQL, CI/CD, Zeplin, Google Cloud Platform

Experience

Metallicus Inc. Oct 2020 - present

Software Engineer

[github](#)

- Built 7 greenfield dApps, an internal dashboard, and a web SDK as a core member of the Proton team
- Drove the adoption of TypeScript, Next.js, and accessibility awareness while spearheading team group learning to inspire engineering growth (topics: caching, web accessibility, EOSIO blockchain)
- Exhibited leadership by communicating with other teams to resolve prod issues while manager was away
- Mentored intern through educational calls and thorough code-reviews (received public feedback for being a “great teacher who inspires them to be a better programmer”)
- Hosted a game night to help HR promote collaboration, bonding, and cross-departmental communication

App Academy

March 2020 - Oct 2020

Software Engineer Intern (June 2020 - Sep 2020)

- Architected frontend for learning management system with modern tech (TypeScript, React, Material-UI)
- Developed API endpoints in C# following test-driven development (.NET Core, CQRS)
- Contributed to domain-model planning to solidify domain-driven-design before app development

Curriculum Developer (March 2020 - Oct 2020)

- Rapidly researched and taught React, Node.js, Flask, and OOP with educational projects and tutorials
- Launched new React, Redux, and Hooks curriculum and managed team of senior developer contractors
- Presented lectures on React lifecycle methods, React hooks, frontend state management, and user auth

Projects

SCMIAC - Next.js, React (TypeScript), Google Drive API (Python, Node.js)

Built for Southern California Marimba's [2021 International Artist Competition](#) to streamline anonymous applicant material navigation in the judging process of 200 preliminary round participants

- Single-handedly designed, developed, and tested an intuitive web app to easily listen to an anonymous applicant's MP3 files while reviewing their PDF sheet music
- Developed Python script as proof of concept to bulk-anonymize applicant files with Google Drive API
- Used Node.js Google Drive API in server-side Next.js code to fetch real-time Google Form updates
- Implemented light-weight data processing to extract and organize data from Google Spreadsheets

Synewaveshi - Express.js, React, Web Speech API, Socket.io, Tone.js

[github](#)

Pet project to explore voice-controlled music generation and co-creation of sounds via web browser

- Set up WebSocket connection for users to co-create musical tones with real-time voice input
- Managed chat history storage with linked list for organized WebSocket interaction in the backend API

Brewer - Ruby on Rails, PostgreSQL, React/Redux, Mapbox API, Yelp REST API

[github](#)

Full-stack content platform that connects craft beer enthusiasts through a forum and top brewery travel guides

- Autonomously developed and designed the database schema, web API, and frontend application
- Utilized AWS S3 and Rails Active Storage to reduce server load and allow app to scale

Education

App Academy (SF) - Software development intensive (Ruby, JavaScript, SQL)

Aug 2019 - Dec 2019

Boston Conservatory at Berklee - Bachelor of Music: Percussion (3.87 GPA)

Aug 2014 - May 2018

Massachusetts Institute of Technology - 2.S972/ICE-P435 (VR/AR Workshop)

Aug 2017 - Dec 2017