

Tyler Hartwell

Software Engineer

SUMMARY

Inventive and detail-oriented software engineer with a background in mechanical engineering passionate about building effective and engaging user experiences. Skilled in developing robust software solutions, problem-solving, and collaborating across teams to drive process improvements. Eager to contribute to a forward-thinking tech company that values growth and creativity.

Explore my portfolio at tylerhartwell.com

PROJECT EXPERIENCE

Weather (Interactive Weather Visualization App)

Tech Stack: Next.js, TypeScript, React, Tailwind CSS, HTML Canvas, External API

- Designed a responsive app to holistically visualize historical and forecast weather data consumed from Open-Meteo API using a custom HTML canvas chart.
- Integrated intuitive UX with touch/mouse timeline scrubbing, weekday summaries, location search, and filtering of visible parameters.

Sudoku Ruler (Fullstack Web App for Advanced Puzzle Solving & Training)

Tech Stack: Next.js, Typescript, React, Tailwind CSS, MongoDB

- Built a platform to practice advanced Sudoku strategies with hundreds of curated puzzles and selectable automated solving steps.
- Enabled intuitive and responsive interactions across devices.

Put It On The List (Fullstack Web App for Collaborative List Management)

Tech Stack: HTML, CSS, JavaScript, Firebase

- Developed a responsive real-time app for private and shared list management using cloud storage and no-login access for anonymous and frictionless user experience.

Personal Portfolio Website (Project Showcase and Developer Blog)

Tech Stack: Next.js, React, TypeScript, Tailwind CSS, Sanity CMS

- Built a responsive website to showcase projects and host a developer blog, with dynamic content managed using a headless CMS.

WORK EXPERIENCE

CAD Technician at SeeScan, San Diego, CA November 2018 — May 2023

- Performed cross-departmental collaborations to enhance processes through software and procedural innovations.
- Created, maintained, and updated complex 3D models, assemblies, and technical drawings.
- Co-developed, designed, and physically constructed product testing apparatus, improving product validation efficiency.

Engineer at CHC Consulting, LLC | San Diego, CA October 2017 — July 2018

- Designed cost-effective fiber optic layouts using specialized telecom CAD tools.
- Led quality control, ensuring design accuracy and timely delivery for client projects.

CONTACT

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github.com/TylerHartwell

linkedin.com/in/tyler-hartwell

SKILLS

HTML

CSS

Tailwind

Javascript

Typescript

React

Next.js

MongoDB

Java

C#

Git

Node

EDUCATION

UC San Diego

2011-2016

BS: Mech. Eng.