

Tyler Hartwell

Software Engineer

SUMMARY

Inventive, detail-oriented, software engineer with a concern for creating effective and enjoyable user experiences. Proven track record of leveraging intuition and logical problem solving. Looking to bring my skills to a consistently productive tech company with room for growth.

WORK EXPERIENCE

Computer Aided Design Technician at SeeScan, San Diego, CA

November 2018 — May 2023

- Collaborated with teams across multiple departments to implement process improvements through software and procedure changes
- Created and managed updating of 3D model parts, assemblies, and drawing files
- Conceptually co-developed, designed, and physically built various product testing apparatus

Engineer at CHC Consulting, LLC | San Diego, CA

October 2017 — July 2018

- Designed cost-effective plans for the construction of fiber optic routing for telecommunications, utilizing specialized software
- Managed engineers as a quality control lead by assuring designs are accurate while exceeding client deadlines

PROJECT EXPERIENCE

[Put It On The List](#) (Fullstack Web App for Collaborative List Management) –

- Users can keep a private list cloud-hosted in a Firebase Realtime Database.
- Lists can be shared to make public and collaborative while maintaining anonymity of users who can leave or join at will with a provided group ID
- Responsive mouse and touch interaction for adding and editing as well as removing, or toggling highlights individually or in batches

[Sudoku Ruler](#) (Interactive Webpage for Puzzle Solving & Training) –

- Users can input and set a new puzzle manually or by pasting a representative 81-character string
- Smooth and intuitive interaction across multiple platforms and input methods
- Identifies invalid solutions and filters possible solution candidates algorithmically
- Particular named patterns and strategies can be chosen to attempt a single time or can be marked to be automatically attempted as progression is made

Other Projects:

Personal Note Taking app with markdown styling options, utilizing React and Firebase

Amazon-styled E-Commerce Website Clone with product, cart, and order history pages

Bite-size rogue-like fantasy strategy Java game with text-based difficulty and action options

CONTACT

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SKILLS

HTML

CSS

Javascript

React

Java

C#

Algorithms

Functional Programming

OOP

Git

Node

EDUCATION

UC San Diego

2011-2016

BS: Mech. Eng.