

Herman Loh

Front-End Developer, Software Engineer &
Ex-Bootcamp Teaching Assistant

CONTACT INFORMATION

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A design student who fell into the rabbit hole of web development. Inspired by the capabilities of modern web technology, I strive to create applications that leverage creative designs with well-written code to enhance and create experiences for people. Avid tech-enthusiast, educator, and lifelong learner.

SKILLS

Languages – JavaScript, TypeScript, Node.js, HTML, CSS, Python

Technologies – React, Express, MongoDB, Heroku, Testing Library with Jest, TailwindCSS, ChakraUI, MUI, jQuery

Other Skills – Adobe Creative Cloud, Figma, Design Thinking, Graphic & UI/UX Design

WORK EXPERIENCE

Ufinity | Associate Software Engineer | Mar 2022 – Present

- Implemented UI using front-end libraries such as **React**, **Redux**, **Redux Toolkit**, **React Hook Forms**, and **MUI**.
- Unit, functional testing, and bug fixing for various UI components using **Jest** and **React Testing Library**.

General Assembly | Instructional Associate | Dec 2021 – Mar 2022

- Conducted lessons in **Full-Stack Software Development** with **JavaScript**, **React**, **Express** and **MongoDB**.
- As a Teaching Assistant, enabled students to achieve their goals to be industry-ready Software Engineers.

Republic of Singapore Air Force | Service Medic | Dec 2019 – Aug 2021

- Introduced a new patient management system, streamlining appointments between doctors and patients.
- Created numerous designed posters and videos for RSAF's Healthy Lifestyle & Anti-smoking Campaigns.

Sixmoredays | Digital Design Intern | Mar 2018 – Jun 2018

- Produced website mock-ups & social media assets and contributed to pitches & projects taken by the company.
- Created layout designs for web banners, interactive social posts & digital marketing with Facebook post hacking.

EDUCATION

General Assembly | Software Engineering Immersive | 2021

- Designed and implemented 4 projects using various web technologies including *JavaScript*, *Node.js*, *React*, *Express*, *MongoDB*, *PostgreSQL*, *jQuery*, *Python*, *Django*, *REST APIs*, *Tailwindcss*, *Heroku*, and *Vercel*.
- Graduated as one of the top few students and was offered a role as a Teaching Assistant for the next class.

Singapore Polytechnic | Diploma in Visual Communication and Media Design | 2016 – 2019

- Organizing Committee for AY2017/2018 Freshman Orientation Program, a five-day event that catered to over 400 new students (Secretary / Treasurer role) & Subcommittee for Design School Club CCA from 2017 - 2018.
- Ambassador for SP's Design School and participated in various open house events as a student counsellor.

PROJECTS

Financial Independence Calculator | Personal Project | [GitHub](#) | [Website](#)

- Front-end web application created using **React**, **Chakra UI**, **React Hook Form** with **Yup**, and **ChartJS**.
- Compound interest calculator for multiple accounts, created to track your net worth after investing over time.
- Application calculates and displays information by year in a line chart for easy viewing and is mobile responsive.

QuizSG | Hack for Public Good by Open Government Products | [GitHub](#)

- Led creation of design screens for landing page, quiz taker & quiz maker flow using the OGP design system.
- Implemented UI/UX elements with Front-End technologies such as **Typescript**, **React**, and **Chakra UI**.
- Worked with a team of experienced software engineers to solve real problems that government officers are facing.

Daily Report | Report App Concept for a Concrete Supply Company | [GitHub](#) | [Website](#)

- Full-stack application made using **React**, **Express**, **Node.js**, **PostgreSQL** with **knex query builder**, and **Heroku**.
- Report app created to optimize a real use case of writing reports for material supplies on an excel spreadsheet.
- Implemented authentication with **JsonWebToken**, secure password hashing with **bcrypt**, and validation with **Yup**.

BuildAWT | Workout Building Tool | [GitHub](#) | [Website](#)

- Front-end web application built with **React**, **TailwindCSS**, and **React Router** with 3rd party API integration.
- Implemented public API (wger API) that returns different exercises sorted by equipment and category.
- The app categorizes the data from the API, which the user can search for and add to their workouts.