

# Wendy Wong

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## Summary

- Practical knowledge in all phase of software development lifecycle (SDLC), including analysis, design, development, testing, deployment and maintenance of web applications.
- Teamwork experience in a full stack project using MongoDB, Express, React/Redux and Nodejs (MERN stack).
- Effectively self-regulated programmer with self-driven motivation, as well as highly efficient team member in Agile project management.

## Technical Skills

### Front-End

- HTML5, CSS3, JavaScript, ES6, Three.js, React/React Hooks, Redux/Redux Toolkit/Redux Toolkit Query, React Router, Typescript, Sass, Flexbox, Grid, Tailwind, Styled-Components, JSS, MUI, Ant Design, React-Bootstrap, Socket.io-client, React-hook-form, Joi, Formik, Yup, Validator, Js-cookie, React-toastify, React-chartjs-2, chart.js, Recharts, React-responsive-carousel, React-anchor-link-smooth-scroll, Emotion, Giphy.js, Emoji-picker-react, Filestack-react, Filesaver, Tiptap, Heroicons, Font Awesome, AOS, Regression.js, Figma, Vite

### Back-End

- Node.js, Express, Next.js, NextAuth.js, Mongoose, Prisma, OpenAI, RESTful API, Socket.io, JSON Web Token, Bcrypt.js, Cookie, Cookie-parser, Body-parser, Mongoose-currency, Dotenv, Cors, Helmet, Morgan, Axios, Fetch, Ajax, Multer, Image-downloader, Cloudinary, AWS S3, Postman, OAuth2, npm

### Database

- MongoDB

### Testing

- Unit and Integration Test, E2E

### Net

- Socket.io, WebRTC Mesh

### Version Control

- Github, Bitbucket

### Tools

- Jira, VS Code, Xcode, Slack, Gather

### Methodologies

- Agile/Scrum

## Project Experience

### Realtime Chat Application

**Website:** <https://yabbertech.com>

**Intro Video:** <https://www.youtube.com/watch?v=AaXOrrKLplc>

**Description:** Yabber is an online chat application that aims to facilitate communication within companies or organizations, which is separated from social media or other personal communication platforms, users can focus on team tasks when they are working.

### Key Achievements:

- Use **React.js** and **Styled-Components** to set up front-end environment, and utilize **Node.js**, **Express.js**, **Socket io** and **MongoDB** to set up back-end environment.
- Connect to **MongoDB** for database management through **Mongoose**.
- Create **routes**, **controllers**, **services** and **middlewares** to build **CRUD** operations for users, messages, channels and organizations.

- Develop **protected router** to add **validation** for authorization and authentication, and design **guard router** to add support for user **admin check** (according to different user roles, display different information on pages)
- Use **JSON Web Token** to generate, validate and send token for **authorization** and **authentication**, and utilize **Bcrypt.js** to validate and store encrypted passwords for user information **security**.
- Build landing page, about page, login/signup page, welcome page, main page, setting page, admin page and error page using **React.js**, **Styled-Components**, fully customized **MUI**, **Formik**, **Font Awesome**, **Emotion** and **Responsive Design** to enhance UI and UX.
- Enable the navigation among views of multiple pages through **React Router**, and extract **common components** to make them readable, maintainable and reusable.
- Use **Axios** to fetch data from **RESTful API**, and utilize **React Context** for global state management to pass state across different modules.
- Enable bidirectional and event-based communication between the client and the server through **Socket io-client** and **Socket io**.
- Work in a team of seven developers and five devOps, managing sprint in **Jira**, joining daily stand-up meeting on **Slack** or **Gather**, discovering technical issues from peers, creating pull requests and reviewing code in **Bitbucket**.

**Tech Stack:** MUI, Styled-Components, React/React Hooks, React Context, React Router, Socket.io-client, Node.js, Express, MongoDB, Mongoose, RESTful API, Socket.io, JSON Web Token, Bcrypt.js, Axios, Formik, Validator, React-toastify, Emotion, Giphy.js, Emoji-picker-react, Filestack-react, Font Awesome, Flexbox

## Ecommerce Website

**Description:** Build an online mobile shopping website that provides multiple mobile products for users to add them to cart, to place orders, to pay by PayPal and to make comments. Moreover, admin can manage all products, orders and users through admin panel.

**Demo:** [React18 https://redux-mobile-shop.herokuapp.com](https://redux-mobile-shop.herokuapp.com)

### Key Achievements:

- Get a hands-on experience in **Redux**, **Redux-Thunk**, **React-Bootstrap** and **React Router**.
- Finish **validation**, **authorization** and **authentication** by **JSON Web Token** and **Bcrypt.js**.
- Make use of **Multer** to upload and store images.

**Tech Stack:** React-Bootstrap, React/React Hooks, Redux, Redux-Thunk, React Router, Node.js, Express, MongoDB, Mongoose, RESTful API, JSON Web Token, Bcrypt.js, Multer, Axios, PayPal SDK script, Font Awesome, Flexbox, Redux-devtools-extension,

**Demo:** NextJs + [Tailwind https://nextjs-mobile-shop.vercel.app](https://nextjs-mobile-shop.vercel.app)

### Key Achievements:

- In mastery of **Next.js**, **NextAuth.js** and **Tailwind** by refactoring this project.
- Manage state through **React useContext** and **useReducer**.
- Build and validate **login**, **register** and **profile form** through **React-hook-form**, generate **sales report** based on **React-chartjs-2**, and add **notifications** by **React-toastify**.

**Tech Stack:** Tailwind, Next.js, NextAuth.js, React/ React Hooks, MongoDB, Mongoose, RESTful API, Bcrypt.js, Js-cookie, Axios, React-paypal-js, React-hook-form, React-chartjs-2, React-toastify, Cloudinary, Headlessui, Heroicons

## Video Conference Application

**Demo:** <https://webrtc-meetings.herokuapp.com>

**Description:** Build a multi-party video conferencing application using WebRTC Mesh Network, which offers audio and video communication, on/off mic switch and screen sharing.

### Key Achievements:

- Manage state through **Redux**, **Redux-Thunk** and **Redux-devtools-extension**.
- Support data channel and audio/video streams by **Simple-peer**.
- Build bidirectional communication by **Socket.io**, and make use of **WebRTC Mesh Network**.

**Tech Stack:** React/React Hooks, Redux, Redux-Thunk, Redux-devtools-extension, React Router,

Socket.io-client, Simple-peer, Node.js, Express, MongoDB, Mongoose, RESTful API, Socket.io, WebRTC, uuid

### Food Ordering Website

**Demo:** <https://nextjs-fooddie-ordering.vercel.app>

**Description:** Build an ordering platform that allows pizza restaurant to accept and manage orders, featuring an interactive menu with a variety of options and simplifying the online ordering process.

**Key Achievements:**

- Get a hands-on experience in **Next.js** and **Redux/Redux Toolkit**.
- Finish **authorization** and **authentication** by **Cookie**.
- Utilize **Cloudinary** to upload and store images, and fulfill **payment** through **React-paypal-js**.

**Tech Stack:** Next.js, Redux/Redux Toolkit, MongoDB, Mongoose, RESTful API, Axios, Cookie, React-paypal-js, Cloudinary

### Expense Tracker Application

**Demo:** <https://expense-tracker-management.herokuapp.com>

**Description:** Build a web application that allows users to keep track of their weekly, monthly and yearly expenses. Users can create accounts, add or edit transactions and gain analysis charts.

**Key Achievements:**

- Use **local storage** as data storage to fetch user information and define **route guard**.
- Complete **filter** through **Mongoose API**, and add **animation** to login/register page by **AOS**.
- Generate **customized charts** based on **Ant Design** Components.

**Tech Stack:** Ant Design, React/React Hooks, React-Bootstrap, Node.js, Express, MongoDB, Mongoose, RESTful API, Moment.js, Axios, uuid, AOS, Flexbox, Postman

### Weather Application

**Description:** Build a weather forecast application that provides weather condition about a particular city by utilizing OpenWeather API to fetch and display weather data.

**Demo:** [Styled-components https://openweather-styled-components.netlify.app](https://openweather-styled-components.netlify.app)

**Key Achievements:**

- Utilize **Styled-Components** to make this project readable, maintainable and reusable.
- Pass state from child to parent component by **Props** and manage state through **React Hooks**.

**Tech Stack:** Styled-Components, React/React Hooks, Axios, Flexbox

**Demo:** [Tailwind https://openweather-tailwind.netlify.app](https://openweather-tailwind.netlify.app)

**Key Achievements:**

- Have a better understanding of **Tailwind** by refactoring this project.
- Develop excellent knowledge of **Axios** to access **OpenWeather API** for live weather data.

**Tech Stack:** Tailwind, React/React Hooks, Axios, Flexbox

### 3D Model

**Demo:** <https://threejs-3d-model.netlify.app/>

**Description:** Build a 3D Model that can be controlled by the mouse and be modified by the panel.

**Key Achievements:**

- Get familiar with **Three.js** and **glTF**.
- Make use of **Dat.gui** to show details, set params and add helpers to this 3D Model's.

**Tech Stack:** HTML5, CSS3, JavaScript, Three.js, glTF, Dat.gui

### Personal Website

**Demo:** <https://lance-lin.netlify.app>

**Description:** Build a responsive personal portfolio website that is designed for a stakeholder (a senior accountant) to showcase his skills and expertise.

**Key Achievements:**

- Get a hands-on experience in **HTML5**, **CSS3** and **JavaScript**.
- **Responsive** layout works well on mobile, desktop and PC with a pleasant user interface.

**Tech Stack:** HTML5, CSS3, JavaScript, Sass, Flexbox, Responsive design

## Open-source Learning

### Your Own ChatGPT AI App

**Github:** [https://github.com/adrianhajdin/project\\_openai\\_codex](https://github.com/adrianhajdin/project_openai_codex)

**Tech Stack:** OpenAI, HTML5, CSS3, JavaScript, Node.js, Express, RESTful API, Cors, Dotenv, Fetch, Vite

### AI Image Generation

**Github:** [https://github.com/adrianhajdin/project\\_ai\\_mern\\_image\\_generation](https://github.com/adrianhajdin/project_ai_mern_image_generation)

**Tech Stack:** OpenAI, Tailwind, React/React Hooks, React Router, Node.js, Express, MongoDB, Mongoose, RESTful API, Cors, Dotenv, Fetch, Cloudinary, Vite

### AI Blog Content

**Github:** <https://github.com/ed-roh/next-ai-blog-app>

**Tech Stack:** OpenAI, Typescript, Next.js, Tailwind, React/ React Hooks, RESTful API, Axios, Prisma, Tiptap, Heroicons

### Airbnb Clone

**Github:** <https://github.com/dejwid/airbnb-clone>

**Tech Stack:** Tailwind, React/React Hooks, React Context, React Router, Node.js, Express, MongoDB, Mongoose, RESTful API, JSON Web Token, Bcrypt.js, Cookie-parser, Multer, Image-downloader, Cors, Helmet, Axios, Date-fns, Heroicons, AWS S3, Vite

### Social Media

**Github:** <https://github.com/ed-roh/mern-social-media>

**Tech Stack:** MUI, React/React Hooks, Redux/Redux Toolkit, Redux-persist, React Router, Node.js, Express, MongoDB, Mongoose, RESTful API, JSON Web Token, Bcrypt.js, Multer, Fetch, Formik, Yup

### Finance Dashboard

**Github:** <https://github.com/ed-roh/finance-app>

**Tech Stack:** Typescript, MUI, React/React Hooks, Redux /Redux Toolkit/ Redux Toolkit Qeury, React Router, Node.js, Express, MongoDB, Mongoose, RESTful API, Axios, Recharts, Regression.js, Grid, Vite

## Teamwork Experience

### YabberTech Team

*Jun 2022 – Oct 2022*

- Work in a team of a team leader and six developers, and collaborate with five Devops.
- Develop an online chat application for communication within companies or organizations.

### JR Academy

*Mar 2022 – Jan 2023*

#### Student & Intern in JR Academy

- Had a knowledge of HTML5, CSS3, JavaScript, Python, PHP, MySQL and WordPress in Beginners Bootcamp.
- Had some understanding of ES6, Nodejs, Express, React, MongoDB, Git and Agile in Full Stack Bootcamp.
- Featured 2 personal projects, 1 Agile team project and 3 months internship.

## Education

### Bond University | Gold Coast, Australia

*Sep 2018 - Feb 2020*

#### Master of Construction Practice

- Received distinction in Structures and Soil Mechanics, Measurement 1, Measurement 2, Project Contract Administration, Building Services, Expert Witness and Dispute Resolution, and Early Estimating and Cost Planning.

### The University of Melbourne | Melbourne, Australia

*July 2016 - July 2018*

#### Master of Management (Human Resources)

- Received First Class Honors in Fundamentals of Finance, Leadership and Team Dynamics.