*Quality is never an accident; it is always the result of intelligent effort – John Ruskin.*

# *Zane Wan*

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Melbourne, VIC                                                    subclass485 visa

With over 2 years of front-end development experience, I have deepened my expertise in building dynamic web platforms using React, TypeScript, and Next.js. I am passionate about applying my skills in a front-end development role, offering a combination of technical proficiency and a keen understanding of user-centric design. Eager to contribute, I'm confident in my capacity to integrate seamlessly into any development team, striving always to elevate the quality and efficiency of our collective output.

## OBJECTIVE

As someone eager to grow and contribute, I am actively pursuing a full-time front-end development role. I am committed to applying my expertise and skills to support and enhance the collaborative efforts of the team I join.

## ONLINE PORTFOLIO

*https://zanes-portfolio.vercel.app*

## TECHNICAL SKILLS

- React
- TypeScript
- Next.js
- Tailwind CSS
- Axios
- MySQL database
- Basic Linux command
- Wordpress
- HTML+CSS+JavaScript
- GitHub
- Agile software development

## PROFESSIONAL EXPERIENCE

**Web Developer**                                          **Jan 2024 – Feb 2024**

*Independently*

*https://issue-tracker-deploy-rr27.vercel.app*

**Situation:**

Recognizing the need for an efficient way to track development issues, I embarked

on creating an Issue Tracker system. The goal was to provide a clear and user-friendly interface for monitoring various stages of issue resolution from report to closure, catering to developers, project managers, and stakeholders.

**Task:**

My responsibilities encompassed the entire project scope: conceptualizing the functionality, designing the user interface, and implementing the system. Key features included real-time updates, categorization of issues (open, in-progress, and closed), and user role management.

**Action:**

● Use Next.js as framework

● Integrated Tailwind CSS for rapid UI development and ensured responsive design for cross-platform compatibility.

● Implemented a RESTful API structure with Nextjs for managing data flow and CRUD operations.

● Utilized MySQL for robust and reliable data storage.

● Incorporated authentication and authorization for user security using NextAuth.js.

● Apply typescript to project to reduce frequency of type errors.

● Use axios to fetch data from back-end.

● Render data to the proper pages and sections.

● Version control with GitHub

● Deploy it on Vercel

**Result:**

The Issue Tracker system was successfully deployed, enabling users to efficiently manage and track development issues. The intuitive UI and robust backend significantly improved the issue resolution process. This project not only solidified my expertise in full-stack development but also honed my project management and problem-solving skills.

**Web Developer**                                                          **Jun 2024 – Dec 2023**
*Digital Health at Monash Uni*

**Situation:**

I was responsible for managing and developing three distinct, yet interconnected websites at Digital Health at Monash Uni. These platforms aimed to address varying facets of the healthcare realm, from monitoring superbug infections to orchestrating virtual medical trials and pushing for eco-conscious prescription methods.

**Task:**

● Develop the Superbug website for healthcare professionals to keep tabs on patient infections.

● Construct the Virtual Trial platform, which integrates both FHIR data and proprietary data from MySQL, for doctors to send and receive surveys remotely.

● Craft the Prescribe site, facilitating doctors to prescribe medicines with an innovative emphasis on the medicines' carbon footprint.

**Action:**

● All three websites were crafted using Next.js with Typescript, ensuring seamless

integration and interaction with the FHIR server, where data exchanged conformed to the FHIR format.

● Incorporated the Antd UI library for a cohesive and user-friendly interface across platforms.

● Deployed all websites on a virtual machine in Nectar, necessitating proficiency with Linux for setup, management, and maintenance.

### *Superbug Site:*

- Provided tools for specialized patient and superbug infection searches.
- Integrated functionalities for adding, deleting, and altering patient entries.
- Offered data visualization and precision mapping for superbug locations.

### *Virtual Trial Site:*

- Integrated a MySQL database for handling protocol information, which wasn't sourced from the FHIR server.
- Facilitated doctors' management of patient lists and their details.
- Enabled protocol-based survey dispatch to select patients via email or SMS and provided a platform for doctors to analyze returned survey results.

### *Prescribe Site:*

- Implemented traditional prescription capabilities with a novel feature: a carbon footprint metric for drugs, guiding doctors towards greener prescription choices.

**Result:**

As of now, substantial advancements have been made on all three projects, with each website having been successfully deployed on a VM in Nectar and managed using Linux. Through this tenure, not only did I reinforce my proficiency in web development tools such as Next.js, Typescript, and Antd, but I also contributed significantly to initiatives aimed at improving healthcare practices, patient-doctor interactions, and promoting environmentally friendly medical decisions.


**Web Developer**                                             **Mar 2022 – Jun 2022**

*Independently*

**Situation:**

I planned to develop a course management system. The system will meet the needs of students to select and delete courses, teachers to create new courses and edit existing ones, and administrators to manage the information of all entities in the system (students, teachers, courses).

**Task:**

As it is an independently project, my task was to achieve all the functions I mentioned before. In addition to the functional aspects, the layout design of the page appearance was also a task.

**Action:**

● Use Next.js as React framework

● Use Antd as UI library

● Apply typescript to project to reduce frequency of type errors.

● Use axios to fetch data from back-end.

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● Render data to the proper pages and sections.
● Version control with GitHub.
**Result:**

Basically, I have built all the managers web pages with their own function and achieved what I expected before the development such as adding, deleting and searching three entities. By doing this exercise, I have mastered the basic usage of React, for example the JSX syntax, React hook and so on. In addition to this, I have consolidated my knowledge about HTML and CSS throughout the process.

**Web Developer**                                              **Mar 2021 – Oct 2021**
*Monash University IE Unit*
**Situation:**

The IE Unit requires students from different majors to work in groups to develop a project. The project can be a web application or a mobile application. As the developer in the team, I was responsible for the prototyping of the web pages as well as the development of the actual pages style and function. Our team decided to develop a website which can raise awareness of sun protection and protect yourself from UV damage.
**Task:**

Firstly, we need to learn to work as a team, for example how to cooperate, how to divide the work, how to communicate and how to resolve conflicts. As an IT student in the group, my tasks include design the appearance of all pages and develop all pages. Our pages had two main functions which I have achieved, first was to show useful information about UV, the other was to give suggestions based on the UV of users' location.
**Action:**
● Use Mockup to draw prototype of the website
● Choose WordPress as development platform
● Write HTML; CSS; JavaScript code and other related method to develop practical pages
● Select and introduce appropriate external libraries to implement page functions.
In detail, our website mainly needs two external API, one is OpneUV to get the real time UV index based on the user location information. The other is Google Places API to transfer location information to longitude and latitude.
● Design UI for the web page.
**Result:**

Basically, I have built all the managers web pages with their own function and achieved what I expected before the development such as adding, deleting and searching three entities. By doing this exercise, I have mastered the basic usage of React, for example the JSX syntax, React hook and so on. In addition to this, I have consolidated my knowledge about HTML and CSS throughout the process.

## VOLUNTEERING

**Computer Volunteer Service Team**                           **Nov 2015 – Jul 2016**

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*Northwest A&F University,*

     The Computer Volunteers is an organization that spends its time after school solving computer related problems for students. I joined this organization to use my knowledge for the benefit of my fellow students and to develop my social skills. I am mainly responsible for the installation of operating systems, routine maintenance of computer hardware and software, and simple hardware maintenance. Through this time of volunteering, I have practiced how to communicate with all kinds of people and improved my teamwork skills.

## EDUCATION

**Master of Information Technology**                **Mar 2020 – Oct 2021**

*Monash University*

Key Modules: Software engineering; Project management; IT research methods

**Bachelor of Software Engineering**            **Sep 2015 – Jul 2019**

*Northwest A&F University*

Key Modules: Computer skill training; Object-Oriented programming; Database theory and application; Compiler theory