

# Zane Wan

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portfolio: zanes-portfolio.vercel.app

## Summary

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As a dedicated and passionate front end developer with over 2 years of web application development experience, I specialise in building dynamic web platforms using **React, TypeScript, and Next.js and Wordpress**. Highly skilled in modern web technologies such as Tailwind CSS, Axios, and MySQL. Demonstrated expertise in agile development environments and a strong track record of delivering high-quality projects on time. Adept at integrating user-centric design principles and enhancing the overall efficiency of development teams.

## Skills

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Languages: **JavaScript, TypeScript**, Java, Python, PHP  
Web tech: **Next.js**, Restful API, **WordPress**, Express.js, Laravel  
Front end: **React**, Tailwind CSS, antd, Radix UI, Bootstrap, HTML5, CSS3  
Database: SQL, MySQL, MongoDB, Prisma, Mongoose  
Tools: Nectar Research Cloud, Linux command, Git, Agile software development

## Work Experience

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MELMOXUE Education, Melbourne	03.2024 - 07.2024	Full Stack Web Developer
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Description: Developed a comprehensive Teacher Information Management System that allows teachers to manage their personal and professional information, record their teaching hours and calculate remuneration and send reports to the accounting department via email, and enables administrators to efficiently manage and review all teacher data.

Technologies: **React, TypeScript, Next.js, Tailwind CSS, Antd**, MongoDB, Mongoose, RESTful API

- Conceptualised the system's functionality, **designed the user interface**, and led the implementation.
- **Utilised Next.js as the framework and Antd, Tailwind CSS for responsive UI development.**
- **User Management and Information System:** Designed and implemented secure login and registration functionalities, allowing teachers to input and update their personal details, bank information, and course data. Developed user-friendly interfaces to display this information.
- **Teaching Hours and Remuneration Calculation:** Developed a system for recording teaching hours and student numbers, with automatic remuneration calculation based on predefined rates. Enabled teachers to send remuneration reports to the accounting department via email with a single click.
- **Administrative Dashboard:** Built an interface for administrators to manage and review all teacher data, with functionalities for viewing, filtering, and sorting information.
- **Backend Development and API Integration:** Utilized NextJS for backend development, integrating Mongoose and MongoDB for efficient data storage and management. Designed and implemented RESTful APIs to ensure smooth data communication between the frontend and backend.

## Digital Health Lab at Alfred Health&Monash University, Melbourne

07.2022 - 12.2023 **Full Stack Web Developer**

Description: Contributed to multiple projects, with a primary **focus on front-end development** to enhance user interfaces and improve user experience in medical applications, while **also handling essential back-end operations** to ensure robust data management and integration by **using node.js and php.**

### **1.SuperBug AI Project**

Description: Developed a web application used in both laboratory and hospital settings to monitor and manage superbug data.

Technologies: **React, Next.js, Antd UI,Tailwind CSS**, FHIR, RESTful API

- **UI Design: Designed the overall layout and style of the application** to ensure it met the needs of both laboratory technicians and hospital staff. Selected Antd for its professional appearance and supplemented with Tailwind CSS for modifying smaller elements like buttons and minor components.
- **Front-End Development: Utilised Next.js to create a responsive and user-friendly interface.** Developed specific pages for patient and superbug searches, displaying detailed information using Antd components like tables, cards, and modals. Implemented dynamic charts and graphs for data visualisation, showcasing infection trends and statistics using Chart.js .
- **Data Management:** Integrated functionalities for adding, deleting, and altering patient entries using RESTful API. The data for this application was retrieved from the FHIR Medical Data database, ensuring accurate and up-to-date information was displayed on the front end.

### **2.Virtual Trial Web Application**

Description: Developed a comprehensive web application for managing medical trials and surveys, aimed at both doctors and patients.

Technologies: **React, Next.js, Antd UI**, Linux, FHIR, MySQL, RESTful API

- **UI Design and Front-End Development:** Designed a consistent and professional layout using Next.js and Antd.**The application features a sidebar for navigation and a content area for displaying detailed information.** Key components include tables, forms, modals, and drop-downs.
- **Functionalities:** Enabled functionalities for managing patient information, creating and editing surveys, and creating and assigning protocols. Utilised Antd components to build a user-friendly interface, ensuring doctors can efficiently manage trials and surveys.
- **Database Management:** Utilised MySQL database to manage protocols, segments, and their relationships with patients.
- **API Development:** Installed mysql2 and used Next.js API routes to connect and interact with the MySQL database. Designed and implemented RESTful APIs using Next.js to manage data flow.
- **Deployment:** Created and managed a Linux instance on Nectar Research Cloud for deploying the application.

### **3.Prescription Web page Design and Development**

Description: Designed and developed a front-end interface for doctors to manage and prescribe medications to their patients, focusing solely on front-end design and functionality.

Technologies: **React, Next.js, Antd UI**

- **UI Design and Front-End Development:** Designed the user interface using Next.js and Antd. Key features include a login page, a dashboard for patient management, and a prescription page.
- **Functionalities:** Implemented functionalities for doctors to search and manage patient information, create and manage prescriptions, and view medication details. The prescription page features a table displaying medication information, including a column for carbon footprint to help doctors make environmentally conscious decisions.
- **Environmental Impact Integration:** Added a unique column in the medication information table to display the carbon footprint of each medication, aiding doctors in considering the environmental impact when prescribing.

**Independent Web Developer**, Melbourne

03.2022 - 06.2022

**Frontend Developer**

Description: Developed a course management system with functionalities for students, teachers, and administrators.

Technologies: **React, Next.js, Antd UI library, TypeScript**, RESTful API

- Designed and implemented a course management system using Next.js for the frontend framework.
- Utilised Antd UI library for developing a cohesive and responsive user interface.
- Applied TypeScript to enhance code quality and reduce type errors.
- Managed data operations with Axios for CRUD functionalities.
- Developed features for students to select and delete courses, teachers to create and edit courses, and administrators to manage system information.

**Web Developer**, Melbourne

01.2024 - 02.2024

**Web Developer**

Description: Developed a website to raise awareness of sun protection and protect against UV damage.

Technologies: **WordPress**, HTML, CSS, JavaScript, Mockup, **OpenUV API, Google Places API**

- Responsible for the prototyping of web pages and the development of actual page styles and functions.
- **Designed the appearance of all pages and developed all pages.**
- Use **WordPress as the development platform and use Elementor Builder** to edit the actual page content and style.
- Wrote HTML, CSS, JavaScript code, and other related methods to develop practical pages.
- Selected and introduced appropriate external libraries to implement page functions, including OpenUV and Google Places API.

## Education

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2020.03 - 2021.11

**Monash University**

Master of Information Technology

Related Courses: User Interface Design and Usability

Internet Application Development

Enterprise Application Development for the Web

Industry Experience Studio Project

2015.09 - 2019.07

**Northwest A&F University**

Bachelor of Software Engineering

Related Courses: Object-Oriented programming

Database theory and application

Web Development(HTML, CSS, Javascript)