

# Jimmy Yao *Holding valid Australian PR*

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## SUMMARY

Computer Science graduate with 1-year web development experience, passionate about delivering high-quality applications. Skilled in HTML, CSS, TypeScript, JavaScript, React, and Node.js, excelling at user-friendly interfaces and problem-solving. Committed to ongoing growth, seeking a software development role to contribute to a dynamic team.

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## EDUCATION

**Bachelor of Computer Science** 2017 – 2020 | Adelaide, Australia  
*The University of Adelaide*

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## WORK EXPERIENCE

**Full Stack developer** Feb 2023 – present  
*Code.Sydney* Sydney, Australia


- Collaborated with a small team of developers to deliver a web-based platform that connects local volunteers with non-profit organizations in need of skilled workers using **Git** version control and **Trello** for project management.
- Designed and developed responsive and user-friendly front-end interfaces using **HTML**, **JavaScript**, **TailwindCSS**, and **React**.
- Designed and implemented the backend architecture of the platform using **Node.js**, **Express**, and **MongoDB**, following the **MVC** pattern and **RESTful** principles.
- Implemented APIs to perform **CRUD** operations on different types of data entities such as candidates, profiles, recruiters, or job postings.
- Developed **middleware** functions that manage errors, authentication, and file uploads.

**Frontend developer Internship** Nov 2022 – Feb 2023  
*OutZ* Adelaide, Australia

- Worked on a greenfield project from scratch, following **Scrum** methodologies and best practices.
- Developed scalable and performant eCommerce web applications for an external client using modern web technologies such as **TypeScript**, **React**, **Redux**, **Next.js** and **Mui**.
- Collaborated closely with UX/UI designers using Figma to create user-friendly and responsive interfaces, following agile methodologies and best practices of CSS **Grid** and **Flexbox**.
- Worked with the development team to integrate front-end with backend API using **Axios** and **GraphQL**, ensuring data consistency and reliability across the web applications.
- Debugged and tested front-end code using **Chrome DevTools**, **Jest** and **Cypress**, and utilized **Git** for version control and code collaboration, and used **Jira** for project management and issue tracking.

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## PROJECTS EXPERIENCE

**Kepler Exoplanet Explorer (React, Node.js, Express, Mongoose, Jest, Docker, AWS)**   
NASA's Kepler Exoplanet Explorer enables users to plan their own interstellar missions to any of the Kepler exoplanets. You can choose from a variety of Kepler exoplanets and customize your mission parameters or cancel any unlaunched missions.

- Developed the backend of the application using **Node.js** and **Express.js** to provide server-side processing, routing, and API integration for data retrieval and transfer.

- Configured the **Dockerfile** to enable containerization of the frontend, backend, and database components of the application.
- Implemented **CI/CD** pipeline to automate the build, testing and deploy applications on **AWS**.
- Tested API functionality using **Jest** for robust and reliable functionality.

### **E-commerce Dashboard(React, Node.js, Express, MongoDB)**

*Created an e-commerce dashboard template that displays sales, customer behavior, and inventory management data for an online marketplace. The dashboard has interactive charts, graphs, and tables to help merchants track their store's performance and make data-driven decisions.*

- Implemented the application's front end using **React.js**, **CSS**, and **Material-UI**, and designed a user-friendly dashboard layout.
- Utilized chart libraries, such as **Nivo charts**, to visualize e-commerce data and display business insights
- Incorporated **React Router** and **Redux** for navigation and state management, and utilized **Redux Toolkit Query** to fetch data and enhance the user experience.
- Implemented **MongoDB** for data storage and retrieval and **Express** for handling API requests and server-side logic.

### **BurgerMax (Next.js, React, Redux, MUI)**

*The BurgerMax is an online ordering system for a restaurant that offers burgers, fries, and drinks. The system is designed to allow customers order online with a PayPal account and no login required.*

- Designed and implemented interface using **Next.js**, including features such as the cart, menu, payment gateway and administration page.
- Integrated with **Paypal** for payments, and implemented **Axios** requests to facilitate data interaction between the front-end and back-end.
- Utilized **Redux Toolkit** for centralised state management for the cart component.

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## **SKILLS**

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Front-end development: HTML, CSS, JavaScript, TypeScript, React.js, Redux, RTK query, Next.js, Bootstrap, Tailwind CSS, MUI

Back-end development: Node.js, REST API, SQL, NoSQL, Firebase

Development Tools: Git, Jira, Trello, Scrum, Docker, CI/CD, AWS, Postman, Eslint, prettier, Figma

Testing: Jest, React Testing Library, SuperTest, Cpyress

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## **VOLUNTEER EXPERIENCE**

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**Gaynes Park Manor & City of Norwood Payneham & St Peters**

Mar 2021 – Oct 2022  
Adelaide, Australia

Community Visitors

- Collaborated with volunteers and staff to organise various activities for the elderly.
- Established and strengthened links between people living in aged care homes.

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## **REFERENCES**

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**Available upon request**