

## WENDI TANG

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### EDUCATION

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#### Master of Information Technology (Wam: 77/100)

University of New South Wales

Feb 2023 - Aug 2024

- Data Structures & Algorithms, Database Systems, Computer Networks, Front-end Programming, Systems Capacity Planning, Project Management, Advanced C++ programming

#### Bachelor of Commerce, Finance and Accounting

University of Melbourne

Mar 2020 - Dec 2022

### SKILLS

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- Programming Languages: Python, TypeScript/JavaScript, C/C++, SQL, HTML, CSS
- Frameworks: React, Node.js, Express.js, Next.js, Django, Bootstrap, APIs
- Databases: MongoDB, MySQL, PostgreSQL
- Tools: AWS, Git, Docker, CI/CD, Jira, Linux, Jest, Cypress, Postman, Figma

### PROJECTS

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#### [InventoryWise](#) | Next.js, Node.js, Redux, AWS

- Developed a scalable full-stack inventory management dashboard using **Next.js** for the frontend and **Node.js** for the backend, integrating **PostgreSQL** with **Prisma** ORM for data modeling and API performance.
- Optimized data handling with Material UI Data Grid and implemented centralized state management with **Redux Toolkit** for real-time data fetching and caching.
- Designed and deployed **AWS cloud infrastructure**, integrating services including **RDS**, **EC2**, **API Gateway**, **S3** and **Amplify**, while optimising for cost management and networking efficiency.

#### [RealDomain](#) | React, Node.js, MongoDB, OAuth

- Developed a MERN full-stack real estate application with secure user authentication using **JWT**, **Firebase**, and **Google OAuth**.
- Implemented **CRUD** operations using **MongoDB** to manage property listings and integrated user-friendly features such as image uploads and listing management.
- Enhanced user experience with advanced property search functionality, **API testing** using Insomnia, **Redux Toolkit** for state management, and deployed on the 'render' platform.

#### [DNScraft](#) | Python, DNS protocol, Network Programming

- Developed a custom **DNS resolver** for efficient **domain name resolution**, including message structure and **reverse DNS lookups**, enhancing query response by 20%.
- Conducted a performance analysis against public DNS services, resolving 5000 domain names, and showcased DNScraft's fast response time and accuracy.

### EMPLOYMENT

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#### Data Analyst Intern | VCBeat

Sep 2021 - Feb 2022

- Leveraged **SQL** to clean, troubleshoot, and optimize large datasets, improving data efficiency by 30%.
- Visualized complex hospital data via **Tableau** and **Power BI** reports, reducing operational delays by 25%.
- Analyzed COVID-19 trends using **Python** and Tableau for 50k+ patient records.
- Boosted reporting speed by 20% through streamlining hospital data extraction and improving **ETL pipelines**.
- Implemented **A/B testing** to optimize interface, increasing navigation efficiency by 40% and reducing user churn.
- Automated industry information collection, improving team efficiency by saving 10 hours weekly on manual tasks.

#### Retail Assistant | The Original Lolly Store

Aug 2022 - Nov 2022

- Increased customer satisfaction ratings by 15% through excellent communication, problem-solving skills.
  - Optimised store operation by processing an average of 200 transactions daily with 99% accuracy.
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