CHUA YI XUAN

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Computer Science graduate with 1+ year of hands-on full stack development experience, delivering secure and scalable features in a React and Laravel production system. Skilled in building responsive applications and working in Agile teams to ship impactful solutions.

EDUCATION

University of Wollongong – SIM campus	Oct 2021 – Sep 2024
Bachelor of Computer Science (Big Data)	

National Junior College	Feb 2018 - Dec 2020
A-level	

WORK EXPERIENCE

Allied Container Group
Web Developer   Oct 2023 – May 2024
Contract, Full-Time - Completed while pursuing final year studies under a flexible work arrangement.
- Developed full stack features including **Single Sign-On (SSO)** and **Multi-Factor Authentication (MFA)** in a **React-Laravel** system to modernise a legacy application used by container depot operators across multiple sites.
- Spearheaded an **auto saving draft** feature across the system, improving efficiency by reducing data loss on page leave or due to inconsistent internet connection.
- Revamped the **Role-Based Access Control (RBAC)** interface, improving admin usability.
- Created **reusable Tailwind CSS components** from UI/UX designs to improve consistency and reduce code duplication.
- Integrated and tested **RESTful APIs** with **Axios**, ensuring seamless integration and application performance.
- Worked in an **Agile Scrum** environment with **weekly sprints**, collaborating closely with designers and developers to refine features, address **evolving requirements**, and take ownership of new or previously stalled tasks.

Allied Container Group
Web Developer Intern   Jun 2023 – Sep 2023
- Implemented features for internal warehouse use using **Yii2 Framework (PHP)** and **Tailwind CSS**, including a **password reset flow**, using **MVC pattern** for structured code.
- Researched and applied Search Engine Optimisation **(SEO)** strategies, enhancing SEO scores for multiple websites.
- Gained hands-on experience with **GitLab** for **version control** and **team collaboration**.

PROJECTS

3D Space Planning Tool *(React, Three.js, Tailwind CSS, RESTful API, Figma, GitHub)*   Mar 2024 – Sep 2024
Final Year Project
- Built an interactive 3D room planner using **Three.js**, **React**, and **Tailwind CSS**, enabling customised placement of 3D objects categorised by inclusive user needs.
- Led **frontend** and **API integration**, adding save/load room and **custom user settings** like dark mode and text scaling.
- **Debugged** issues like floating models and API over-fetching, collaboratively resolving root causes of server crashes.

Real Estate Portal *(Flask, Tailwind CSS, JavaScript, Figma, GitHub)*   Mar 2024 – May 2024
- Designed and developed a **fully responsive** real estate web platform for connecting property agents, buyers, and sellers using **HTML**, **Tailwind CSS**, and **JavaScript**, following **OOP** and **Flask's** architecture.
- Implemented key features including property search with filters, **CRUD** operations for listings and user profiles on **admin dashboard**, and a review and rating system.
- Designed **responsive UIs** in **Figma**, then implemented them with a **mobile-first approach** using **Tailwind CSS**.
- Collaborated via **GitHub** and used Flask template rendering to enable seamless **frontend-backend data integration**.

SKILLS

Languages: JavaScript, TypeScript, PHP, Python, Java, MySQL, HTML, CSS
Frameworks: React, Laravel, Yii2, Tailwind CSS, Three.js
Tools: Git, GitLab, Postman, VS Code, Figma
Technologies: RESTful APIs, MVC Architecture, Responsive Web Design, UI/UX Design, Agile Scrum