

Richard Yang

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Richard is a diligent individual who thrives in both individual and collaborative problem-solving. He seeks to further his software engineering skills by gaining valuable real-world experience.

Education

The University of New South Wales

Bachelor of Science (Computer Science),

WAM: Distinction

Expected Graduation: End-2025

Awards: Deans Honours List for Computer Science (2021)

Projects

- ***EarnIt | Javascript, HTML, CSS***
 - Developed a Chrome extension to build productivity by prompting healthy habit-building challenges when accessing user-defined blocked sites
 - **Integrated machine learning** (AI/ML) through MoveNet pose detection (TensorFlow.js) to verify successful challenge completion
 - Utilized Chrome API's (Storage, Web Requests, and History) to track browsing patterns and recommend unproductive websites for blocking
- ***Dungeonmania Game | Java***
 - Implemented and refactored code using **OOP principles and design patterns**
 - Ensured all continuous integration checks (regression tests, linting, coverage) remain passing as well as usability tests for frontend functionality
 - Documented progress and design using Confluence
 - Created a UML diagram to illustrate the architecture and design implemented
- ***LurkForWork | Javascript, HTML, CSS***
 - Implemented the frontend for 'LurkForWork' which emulates a simplified LinkedIn
 - Created a **frontend using VanillaJS** which interacts with a **RESTful API HTTP backend**
 - Web-based application as a single page app (SPA) which only uses a single full load of initial HTML page, and utilises AJAX/fetch to then dynamically manipulate the DOM
 - Incorporated popular Bootstrap CSS framework as well as implemented own styling classes
- ***Soom (Simplified Zoom) | Python***
 - Developed a multi-threaded application through socket programming
 - **Designed custom application protocols** based on TCP and UDP

Work Experience

- ***E-commerce Strategist*** ***Self-Employed (Arcasyd)*** *October 2021 – Present*
 - Specialised in sourcing limited edition sneakers and apparel directly to consumers
 - Organically amassed a following through various social media marketing strategies
 - Directly responsible for prompt and clear communication with customers and partners
- ***Support Worker*** ***Skills Building Support Pty Ltd*** *August 2023 – Present*
 - Provided personalized support to individuals with disabilities to improve their independence
 - Managed scheduling and logistics to ensure smooth operation of activities and appointments
 - Developed strong interpersonal skills by effectively communicating with diverse clients
- ***Engineering Contractor*** ***BYD Construction Inc.*** *September 2022 – February 2023*
 - Hands-on experience in a variety of construction-related tasks
 - Worked with precision and attention to detail to ensure proper execution
 - Reliable communication with peers as well as on-site managers

Technical Skills

- Languages: Python, Java, C, Javascript/HTML/CSS, MIPS, Bash, R, SQL, PostgreSQL, Rust
- Tools: Git, Linux, Gradle, JWT, CI/CD, Psycopg2, Shopify, AWS Cloud (Learning)