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: 74	Expected Graduation: End-2025

Awards: Dean's 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 (TenserFlow.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
- ***UNSW ADSOC Website** | TypeScript, Next.js, Prismic*
  - Developed and deployed a fully responsive community page for the UNSW Adventure Society using Next.js and Prismic CMS
  - Implemented dynamic slice-based components to allow flexible content management by non-technical users through Prismic CMS
  - Utilized Tailwind CSS for modern UI design and improved user experience
  - Debugged live preview and Prismic integration issues, including deployment fixes and environment configuration on Vercel

Work Experience

- ***Junior Software Developer***   ***Boomerang Studios***   *May 2025 - Present*
  - Developed front-end game logic using **TypeScript** within a custom engine (similar to PIXI.js)
  - Engineered **event-driven state machines** to manage complex feature transitions and UI behavior, reinforcing strong understanding of **software architecture patterns**
  - Built reusable UI components and animation controllers using **keyframe sequencing**, easing functions, and custom FX timelines for dynamic symbol interactions
  - Applied **object-oriented principles** to extend engine components, enabling clean abstraction, reuse, and maintainability across game features
- ***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
  - 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, Prismic, AWS Cloud (Learning)