

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: Mid-2025

Awards: Deans Honours List for Computer Science (2021)

Projects

- **SEAMS | Python**
 - Implemented the backend of 'SEAMS', a simplified version of Microsoft Teams, using python
 - Worked collaboratively with a team of 5 developers using standard git practices
 - Followed **AGILE software development** through regular standups, CI/CD, etc
 - Deployed backend to a cloud provider (AlwaysData) allowing public usage
 - Took responses from elicitations as well as conducted interviews to create user stories, which we then implemented solutions surrounding use case limitations
- **Dungeonmania Game | Java**
 - Refactored given code and implemented code using **OOP principals 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
- **Search Engine | C**
 - Created a search engine in C by implementing a simplified version of the well-known Weighted Pagerank algorithm
 - **Utilised appropriate graph structures** from a set of mock webpage URLs to calculate weight Pagerank and sort accordingly
- **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 advertising and marketing
 - Directly responsible for prompt and clear communication with customers and partners
- **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)