





craigtiu_

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profile_ A passionate software engineer with contagious enthusiasm and a high drive to learn, adapt, and succeed. Firm believer in writing beautiful, modular, and scalable code.

education_ **Bachelor of Software Engineering Honours_** **2017 - 2021**
The University of Sydney

experience_ **The Westmead Institute for Medical Research_** **Dec 2019 - Feb 2020**
Software Engineering Intern

- Designed machine learning software for researchers to use in analysing cancer CT
- Implemented software infrastructure in Python to eliminate 6 months future work
- Developed end-to-end modular data pipeline to extract and analyse tumour features
- Interacted with medical stakeholders through development, meeting requirements
- **Technologies:** Python, PyTorch, SciPy, Tkinter, Python unittest

James An College_ **Jan 2018 - Dec 2019**
Student Tutor

- Tutored primary school students for their selective high school placement tests
- Taught regular primary classes, improving JAC MES test averages by 20%
- Coached high school students up to HSC, including small classes and private classes
- Received 100% positive feedback from all the students I've taught

Sydney TechLab_ [LINK] **Jul 2019 - Nov 2019**
Software Engineering Intern

- Developed for a client a digital beer cellar web application with an agile team
- Eliminated need for manual tracking of 500-row Excel files through efficient design
- Designed UI/UX and React components for app, conforming to usability requirements
- Integrated CI/CD tool CircleCI, then deployed the web app through AWS EC2 and S3
- **Technologies:** React, JavaScript, TypeScript, HTML, CSS, Tailwind, Bitbucket, AWS

The University of Sydney_ **Mar 2018 - Jun 2018**
Academic Mentor

- Mentored first year software engineering students with Python and Java courses
- Guided students in queries about CS fundamentals, data structures, and algorithms

projects_

• Personal Portfolio_ (React) [LINK]	Mar 2021
• Quarantinder Web Application_ (Spring, REST) [LINK]	Dec 2020
• Yoshi's Island Jump!_ (Object-oriented Design Patterns) [LINK]	Nov 2018

knowledge_ **Languages:** Python, Java, C, C++, C#, SQL, JavaScript, TypeScript, Lua, R, MATLAB
Frameworks: Spring Boot, JUnit, Python unittest
Web Technologies: HTML5, CSS, React, Tailwind, Bootstrap, SASS
Database Technologies: MySQL, MongoDB, PostgreSQL, Neo4j
Other: Git, GitHub, Bitbucket, AWS, Visual Studio Code

achievements_

- ✓ Graduated high school as school captain, school dux, and with principal's award
- ✓ Maintained upper distinction WAM throughout entire university degree
- ✓ Received high distinction in COMP2123 Data Structures and Algorithms
- ✓ Received high distinction in MATH2069 Discrete Mathematics and Graph Theory
- ✓ Ranked top 2 in entire cohort in ELEC1601 Introduction to Computer Systems

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