Daniel Braithwaite

LinkedIn | GitHub
Daniel.K.Braithwaite@gmail.com | +61 468 637 650

CAREER OBJECTIVE:

Motivated and dedicated undergraduate penultimate Software Engineering student (Hons) at the University of Technology Sydney, specialising in machine learning, network engineering, and SwiftUI. Seeking opportunities to apply my knowledge in real-world projects and committed to continuous learning and professional growth.

EDUCATION:

Bachelor of Engineering (Honours)
Majoring in Software Engineering
WAM (after transferring): 75
University of Technology Sydney

2022 – 2025
(Expected)

Accomplishments:

Data Structures and Algorithms	High Distinction
Machine Learning	High Distinction
iOS Industry Studio	High Distinction
Software Design Studio	High Distinction
Software Architecture	Distinction
Information Security and Management	Distinction
Programming 1	Distinction

RELEVANT EMPLOYMENT:

Veremark — *Test Automation Engineer*
- Prepared API testing for integration into CI/CD pipeline
- Optimised testing framework, reducing manual effort and improving test execution speed
- Prepared API test plan for tests to be integrated into CI/CD pipeline
- Created yaml testing file standardisation and implementation, allowing for non-technical personnel to run select tests from testing suite
- Created pdf reporting functionality for tests to allow non-technical personnel to see what tests were run, the parameters and outputs were associated with any test.

PROJECTS:

Psithurism — *iOS Industry Studio*
- First cohort in Australia to complete a university subject for the Apple Vision pro
- Responsible for developing the Apple Watch application, Apple Vision Pro application UI, immersive environments, sound design, animation and timekeeping.
- Led group of 3 to develop a cross-platform application for the Apple Watch and Apple Vision Pro

PROJECTS cont:

RentFree — *Apple Foundation Program*
- First cohort in Australia to complete the Apple Foundation Program
- Developed the image upload and retrieval UI and backend, adhering to Apple Human Interface Guidelines.
- Contributed to the conceptualisation and storyboarding of the project, leading a group of 4 other students to create a rental subletting application.
- Spearheaded the final presentation to Apple employees and university staff, answering any technical questions regarding the application.

MNIST CNN — *Machine Learning*
- Developed and trained a reliable Convolutional Neural Network (CNN) in Python on the MNIST hand-drawn digits dataset using only numpy and pandas.
- Utilised 2 hidden layers with biases, with sigmoid activation functions on hidden layers and softmax function applied to the output layer.
- Used a 5:1 train/test split to achieve an 85% accuracy on a unseen test data set

Eyedentify — *Software Design Studio*
- Developed a Semantic Image Segmentation model used to blur video backgrounds in real-time.
- Assisted in the development of mongoDB storage solution for image and data verification.
- Project received a final mark of 97%.

TECHNICAL SKILLS:

Languages:	Python, C++, SwiftUI, Javascript
Libraries & Frameworks:	React, Bootstrap, NodeJS, Docker
Services & Tools:	Cisco IOS CLI, postgreSQL, MongoDB, Firebase, Postman
Documentation & Version Control:	Jira, Confluence, Git, Github

EMPLOYMENT:

Employrite — *Verification Associate*
- Processed searches and reports related to background screening applications, focusing on Australian Federal Police (AFP) and Australian Criminal Intelligence Commission (ACIC) platforms.
- Ensured thorough and accurate review of information from responses, government records, and other documents within a 1% margin of error.
- Liaised with clients and candidates to resolve any issues in a timely manner.

University of Technology Sydney — *Student Promotions Representative*
- Represented UTS at Career Markets, School Visits, and Major On-Campus Events.
- Ran University Tours and Workshops for High Schools visiting On-Campus.
- Facilitated and engaged with attending High School Students about UTS FEIT courses, specifically in Software Engineering.
- Conducted general administrative duties (e.g., mail-outs and responding to inquiries).