Tristan Norbury

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Education

Macquarie University, North Ryde, NSW

Bachelor of Information Technology (Business Technology)

2022 - Jul 2025

Professional Experience

Software Developer Intern – Bold Global, Macquarie Park, NSW

Jul 2024 – Nov 2024

• Redesigned and developed dynamic user interface components for a digital platform, enhancing interactivity and increasing user engagement across mobile and desktop environments.

• Integrated RESTful APIs and connected the Wix CMS to deliver real-time content updates, optimizing system performance and supporting scalable, end-to-end feature rollouts.

• Built and embedded an interactive Mapbox experience into the site using custom iframes and frontend logic, empowering users with location-based services; implemented lazy loading and SEO enhancements that improved load times by 10%.

Lead Developer / Co-Founder – Catchy, Sydney, Australia

Jun 2023 – Feb 2025

• Built a scalable product scraping system using Python, Selenium, and BeautifulSoup, extracting over 1 million product entries monthly from 100+ e-commerce platforms and storing data across SQL/NoSQL databases.

• Developed custom algorithms to improve product matching accuracy by 80%, ensuring better search experiences for customers; handled 10,000+ daily requests with Flask and session-managed backend architecture.

• Implemented asynchronous requests, multithreading, and fault tolerance for fast and reliable data pipelines, all deployed through Docker containers with integrated CI/CD pipelines.

iOS Developer – Macdonald Valley iOS App, Central Coast, Australia

Mar 2024 – Feb 2025

• Designed and built a native iOS emergency response app that aggregates weather, traffic, and river data, supporting local communities during flood events with real-time updates and alerts.

• Leveraged AWS Lambda to create scheduled serverless functions, processing and storing time-sensitive data in Supabase SQL, reducing redundant API calls and optimizing cost.

• Containerized backend services using Docker, streamlining deployment workflows and enhancing system reliability; the app received official endorsement from the Macdonald Valley Association and surpassed 3,000 downloads.

Bartender & Barista (Part Time) – The Pickled Wombat, Sydney

May 2022 – Present

Skills

Languages: JavaScript, Python, Swift, SQL, Kotlin (familiar)

Frameworks: Node.js, Express.js, React, Flask, SwiftUI, Flutter

Mobile Development: iOS (Swift), Android (Kotlin - exposure)

Tools: Docker, Git, Supabase, Selenium, Bamboo (CI/CD), AWS (Lambda, S3)

Architecture: RESTful APIs, Microservices, MVP/MVVM Patterns, Dependency Injection

Certificates

Azure AI Fundamentals (AI900) – Microsoft

Java & Python Basics – HackerRank

C++ Programming Concepts – The Great Courses