Adam Hussein

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PROFILE

Software Engineering student at the University of Technology Sydney with a 70.88 WAM and expected graduation in mid-2027. Builds practical full-stack and desktop applications through collaborative projects using JavaScript, React, Node.js, C#, .NET, Vercel, and Supabase SQL. Experienced in frontend and backend development, database-backed applications, and collaborative GitHub workflows. Brings more than four years of progressive aquatic-centre experience, advancing from Swim Teacher and Pool Lifeguard to Supervisor while leading teams of over 10 staff members.

TECHNICAL SKILLS

Languages: C, C#, C++, Java, JavaScript, Rust and Python
Frameworks and tools: .NET, Next.js, Node.js, React, React Native, Git
Databases: MySQL, Microsoft SQL Server, PostgreSQL
Cloud platforms: Cloudflare, Vercel
Practices: Team collaboration, Git-based development, code reviews, Agile/Scrum, requirements analysis, problem solving

PROJECTS

Convene — Collaborative Web Application

Group software development project | 7 August 2026 – Present

- Collaborating with a team of software developers to design and build a web application that helps groups find practical meeting locations that are fairly equidistant for participants.
- Contributing across both frontend and backend development, building user-facing features and supporting application functionality.
- Using Vercel and Supabase SQL to deploy the application and manage project data.
- Working with the team through GitHub issues, pull requests, regular team discussions, and collaborative development.

Hospital Management System — C#/.NET 8

Academic software project | August 2025

- Built a role-based console application supporting Administrator, Doctor, and Patient workflows.
- Implemented patient registration, doctor assignment, appointment booking, appointment history, and role-specific menus.
- Used object-oriented design and file-based persistence to manage doctors, patients, appointments, and login records.
- Added masked password entry and validation for console-based user authentication.

GitHub: github.com/adamhussein1/Hospital-Management-System-

Pet Care Organiser — C#/.NET 8, Windows Forms, Entity Framework Core, SQLite

Group software development project | 2 October 2025 – 25 October 2025

- Contributed to a desktop pet-care management application built with C#/.NET 8 and Windows Forms.
- Developed the care schedule and veterinary history features to help users organise pet care activities and track medical records.
- Collaborated on the main dashboard, contributing to the shared user experience and application navigation.
- Used Entity Framework Core and SQLite for local data persistence, with NUnit tests supporting application reliability.

GitHub: github.com/adamhussein1/PetCareOrganiserApp

EXPERIENCE

Royal Life Saving

Seven Hills, NSW | February 2022 – Present

Aquatic Centre Supervisor | *September 2024 – Present*

- Supervised operations across two pools (25-metre and 20-metre), including swim school programs and external pool users.
- Led and coordinated a team of more than 10 staff members, allocating duties and supporting safe, efficient daily operations.
- Monitored pool areas, enforced safety procedures, and responded appropriately to incidents.
- Maintained a safe, welcoming, and well-organised environment for customers, students, staff, and external users.

Swim Teacher / Pool Lifeguard | *February 2022 – Present*

- Delivered swimming lessons to students across different ages and ability levels.
- Maintained a safe and supportive learning environment while following aquatic safety procedures.
- Built strong communication, teamwork, and customer-service skills while supporting swim school operations.

EDUCATION

Bachelor of Engineering (Software)

Expected graduation: mid-2027

University of Technology Sydney, Sydney, NSW | WAM: 70.88

Relevant coursework: Software engineering, object-oriented programming, data structures and algorithms, database systems, web development, and computer networks

ADDITIONAL INFORMATION

- **Availability:** Available full-time during summer and part-time during the first half of 2027
- **Certifications:** First Aid, CPR, and Pool Lifeguard certifications
- **Interests:** Finance and stock market investing