

MITCHELL SHELTON

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EDUCATION

University of New South Wales

February 2016 - December 2019

B. Science (Computer Science), 77.7 Weighted Average Mark

Shanghai Jiao Tong University

June 2018 - July 2018

UNSW Confucius Institute Shanghai Study Tour

EXPERIENCE

FitSense

November 2018 - Present

Junior Fullstack Developer

- Created a Continuous Integration and Delivery Pipeline that allows developers to automatically test and deploy their code in various environments such as development, staging and production. Built with Gitlab CI, Docker and an AWS EC2 Server optimised to run the pipeline in 5 minutes.
- Fixed inefficiencies in existing tests by utilising a local database instead of a server-side database resulting in a 3000% performance increase which dropped testing time from 15 minutes to 30 seconds.
- Streamlined the process of assisting developers with finding out when an application is down by designing and building a dashboard that displays the real-time status of all projects and tests. Front-end developed in ReactJS and Back-end developed as a REST API utilising Python/Flask and DynamoDB.
- Currently maintaining and implementing new features on our fitness app ActiveLife. [Available on iOS](#).

UNSW

June 2017 - March 2018

Game Developer

- Developed an educational cyber security game called A.L.I.C.E to improve student and staff awareness of security. Built with C# using Unity.
- Rated 4.9/5 on the [iOS Store](#) and 4.9/5 on the [Android Play Store](#).

UNSW

June 2016 - Present

Academic Tutor

- Teaching COMP1511 Introduction to Programming and COMP2521 Data Structures and Algorithms. Teacher rating: 5.86/6.

Astron Telecommunications

November 2016 - March 2017

Product Review Analyst

- Conducted testing of various routers/modems and carried out research on current networking trends.

SELECTED PROJECTS

Telstra SMART Games 2018 - 3rd Place (out of 70 teams)

- Received 3rd place out of 70 teams for a system that utilises computer vision to detect road-related assets and provides real time information on their status. [View our first round submission here](#).
- The system leverages government vehicles such as garbage trucks to autonomously obtain this data without human interaction.

Ernst and Young P&U Blockchain Maintenance Cycle Asset Management System

- Participated in the UNSW Compass Program in collaboration with EY where we developed a blockchain solution for Power and Utilities Maintenance Cycle Asset Management using the hyperledger framework. [More information](#).

SIRIUS - Machine Learning and Natural Language Processing

- SIRIUS aims to provide students instantaneous feedback on their course work. By utilising machine learning, it compares student solutions to its own knowledge of the topic. SIRIUS learns through textbooks and correct solutions to topics. [More information.](#)

KEY SKILLS

- Programming Languages: Python, ReactJS, SQL, C, Java and Shell Script
- Tools and Services: AWS, Docker, Git, Zappa, MySQL, DynamoDB, Flask

KEY EXTRACURRICULARS

Alpha Epsilon Pi Fraternity (Sydney)

November 2018 - Present

Vice President

- Oversaw and created 6 committees to assist with the organisation and execution of all events. Comprised of Social, Charity, Academics and Careers, Civics, Sports, Equity and Social Media.
- Assisted the president in setting up relationships with other Jewish organisations such as AUJS and Shalom College for co-hosting events together.
- Provided guidance to committee chairs for event planning and execution. [More information on AEPi.](#)

Alpha Epsilon Pi Fraternity (Sydney)

January 2018 - November 2018

Philanthropy Chair

- Organised a charitable whiskey tasting event that raised \$612 for the Israel Children's Cancer Foundation.
- Organised members to join the Gift of Life bone marrow registry.

Security Society UNSW

December 2016 - October 2017

CTF Head

- Organised Capture The Flag events and created a diverse range of challenges for participants.
- Challenges consisted of topics such as cryptography, web security and binary exploitation.