

MITCHELL SHELTON

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EDUCATION

University of New South Wales

February 2016 - January 2020

B. Science (Computer Science), 79.5 Weighted Average Mark. [View Transcript](#)

Shanghai Jiao Tong University

June 2018 - July 2018

UNSW Confucius Institute Shanghai Study Tour. [View Certificate](#).

EXPERIENCE

FitSense

December 2019 - Present

Mid-Level Back-End and DevOps Engineer

- Architected a system to allow developers to deploy our Microservices Back-End as a temporary stack from a Git branch to the cloud. Implemented with Serverless, AWS CloudFormation and Seed Pipelines.
 - Resulted in a huge increase in productivity as developers were no longer sharing the 'dev' environment, allowing them to 'pop-up' stacks as needed.
- Periodically maintaining the user interface tests that I created as a Junior Full-Stack Developer.
- Currently maintaining and implementing new features on our fitness app ActiveLife. [iOS](#), [Android](#).

FitSense

November 2018 - December 2019

Junior Full-Stack Developer

- Largely responsible for creating and maintaining a majority of the CI/CD Pipelines at FitSense.
 - Utilised Gitlab CI and Fastlane to create a Continuous Integration and Delivery Pipeline that automatically tests and deploys our Front-End React Native App to TestFlight and Google Play Store for Internal Testing.
 - Designed and Implemented the entire User Interface testing suite for the React Native Front-End with the Screenplay Pattern through Appium. Screenplay is a relatively new Object Oriented Design Pattern that produces extremely maintainable and readable tests.
 - Created a CI/CD Pipeline for the Back-End, allowing developers to automatically test and deploy 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 Back-End 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.
- Created 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.

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. [Read the UNSW article here](#).
- 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. Highest teacher rating: 5.86/6. MyExperience Reports: [18S1](#), [18S2](#), [19T1](#).

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

KEY SKILLS

- Programming Languages: Python, ReactJS, JavaScript, SQL, C, Java, and Shell Script
- Tools and Services: AWS, Docker, Git, PostgreSQL, DynamoDB, Serverless, AWS CloudFormation, Flask, Zappa, Appium, GitLab Runner, GitLab CI, Fastlane

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 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.
 - Selected Events: [Brotherhood TedX](#), [Passover Pizza Party](#).
- Selected as one of 5 Australian delegates to attend the [Michael A. Leven Advanced Leadership Institute](#) and [AEPi 105th International Convention](#) in Phoenix, Arizona where I received leadership and management training by communal and business leaders. [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. [View the official AEPi report here.](#)
- Organised members to join the Gift of Life bone marrow registry. [View the event blog here.](#)

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.