

Alex Nguyen

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SUMMARY

- Australian Citizen studying Bachelor of Engineering (Chemical)/Science (Computer Science), WAM: 80.15 with expected graduation in November 2017
- Gained exposure to web and mobile application development through roles of Junior Software Developer at *Sydney Water*, technical support with *Adviser Logic* and responsibilities as *CEUS Webmaster*
- Familiar with Python, C, Javascript languages, Git and SVN version control

EDUCATION AND TRAINING

University of New South Wales – Graduating Year: 2017

2011 – Present

Bachelor of Engineering (Chemical) & Bachelor of Science (Computer Science)

- Distinction Overall WAM (**80.15**)
- Honours: *Dean's List* (2012-2016)
- CS electives: Algorithms and Programming Techniques, Database Systems, Operating Systems

Fort Street High School

2009 – 2010

Higher School Certificate

- NSW HSC ATAR of **99.20** (Graduated in the top 1% of the state)
- Honours: *Fortian Award 2010*

EMPLOYMENT EXPERIENCE

Sydney Water Corporation

Feb 2017 - Present

Junior Software Developer – Digital Solutions

- Scrum web development and testing of public website applications using jQuery and Javascript
- Browser automated testing with Selenium Webdriver (via Python)
- Cross mobile application (iOS/Android) pilot project with Kony and native rewrite in Android
- Backend development of clients to consume legacy SOAP services
- Prototyping APIs and web templates using Flask

Sydney Water Corporation

Feb 2016 – Feb 2017

Graduate Chemical Engineer – Chemical Dosing Team

- Designed a solution and liaise with contractors to resolve chemical blockage issues that affected a rising sewer main servicing a local community
- Powershell scripting to automate the generation of Emergency Plans for over 30 Chemical Dosing plants
- Excel VBA Macros to automate the logging of time spent on projects

Faculty of Engineering – University of New South Wales

Nov 2014 – Jan 2016

Student Ambassador

- Led a team of 3 Student Ambassadors to execute the 'Wearable Computing' workshop and presentation, engaging groups of over 30 high school students to promote the possibilities engineering can give them
- Collaborated with UNSW Engineering representatives to execute activities for over 100 high school students at A Day @ UNSW and the Honeywell Engineering Summer School

Software Support Consultant

- Resolved over 20 problem resolutions daily over email and telephone platforms using the Zendesk helpdesk tool
- Worked closely with the Support Team to achieve issue resolution methods tailored to the end user and increased average software support satisfaction ratings
- Liaised with clients and the internal Development Team to deliver software solutions via JIRA issue tracking

PROJECTS

MADP Pilot application

2017

- iOS and Android Application using JavaScript cross-platform suite (Kony) and MBaaS and subsequent rewrite in native
- Worked as a team of 3 using Scrum development and Atlassian productivity suite (Confluence/JIRA/Git Stash)
- Completed user stories involving continuous media playback features and notification based on geolocation

Book Swapp

2016

- Assumed scrum master and developer role in a team of 4 developers to create a book sharing marketplace for university students based on an Angular frontend and Python 3 (Flask) backend
- Used Github's Zenhub integration to track 4-week project burndown to deliver a MVP including user authentication, buying, selling and notification features
- Distinction grade achieved for both documentation and final delivery aspects of the project

EXTRA-CIRRICULAR

UNSW Security Society Autumn CTF

2017

Participant

- Participated in 6 hour hackathon involving working in a team of 3 to solve various puzzles revolving around computer vulnerabilities
- Adapted to the challenge of learning with little previous background knowledge and contributed to the team score

Ozwater WaterHack

2017

Participant

- Worked in a team of 5 water professionals to address the challenge of achieving the 'invisible water utility'
- Use domain knowledge to suggest disruptive ideas to improve our business to customer interactions

GradWiki

2016-Present

Project Lead

- Spearheaded the creation of a Graduate focused wiki resource to increase knowledge sharing between early career scientists and engineers at Sydney Water
- Created proof of concept product and functionality using PHP-based DokuWiki to showcase and win organisational support for the idea

Chemical Engineering Undergraduate Society (CEUS)

2014, 2015

Webmaster, Executive Member

- Self-taught HTML and CSS web development methods to revamp existing society web platform using Bootstrap 3
- Designed and maintained an online presence and social media platform to promote society events

LANGUAGES

Python, JavaScript, Java, C

REFEREES

Referees available upon request