

Andrew Nguyen

Adelaide, Australia

+610422094305 — andrewnguyen.x@gmail.com

EDUCATION

The University of Adelaide
Bachelor of Software Engineering

Feb 2012 - Dec 2015

PROGRAMMING LANGUAGES & TECHNOLOGIES

Proficient	Python	Web	Flask
Intermediate	Java, JavaScript	Databases	PostgreSQL, MongoDB
Machine Learning	Sklearn, Pandas		

WORK EXPERIENCE

University of Adelaide & D2D CRC
Research Engineer

Aug 2016 - Present
Adelaide

- Researched and developed techniques in protest prediction and emotion detection
- Competed in machine learning comps (Big Data Cup 19, EmotionX 19, Semeval 19) producing models that were competitive against the state of the art and ranking highly on the leaderboards
- Developed a Bayesian model for protest prediction that emphasised interpretability instead of being a black box
- Built a web app and REST API to demonstrate the application to end users

Semantic Sciences
Software Engineer

May 2016 - Aug 2016
Adelaide

- Prototyped a grant review system in an effort to secure a major contract
- Worked independently using Meteor (a JavaScript framework) to build the system from the ground up

Daelibs
Software Engineer

Feb 2016 - May 2016
Adelaide

- Built internal tools to streamline the setup of proprietary software on devices used in the security personnel industry
- Integrated python scripts and built a Meteor web app that logged vital device info for later tracking and ticketing

Data 2 Decisions CRC
Software Engineer Intern

Dec 2015 - Feb 2016
Adelaide

- Worked on two heavy algorithmic projects involving natural language processing, network analysis and clustered computing in Java
- First one was inferring the country of origin of suspicious Twitter users based on their immediate network. Implemented a label propagation algorithm that constructed the user's network (100,000s node networks) and accurately classifying their country with 70% accuracy (sampling).
- Second one was a Dynamic Query Expansion algorithm that used NLP techniques and TFIDF to discover relevant emerging topics given an initial seed topic