

Andrew Nguyen

Adelaide, Australia

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EDUCATION

The University of Adelaide
Bachelor of Software Engineering

Feb 2012 - Dec 2015

PROGRAMMING LANGUAGES

Proficient Python
Intermediate Java

WORK EXPERIENCE

University of Adelaide & D2D CRC
Research Engineer

Aug 2016 - Oct 2019
Adelaide

- Researched and developed techniques in protest prediction and emotion detection
- Responsible for the full data science pipeline from analysing datasets, feature engineering, training (specialised in logistic regression, Bayesian model, SVMs) and evaluating models
- Competed in machine learning comps (Big Data Cup 19, EmotionX 19, Semeval 19) producing models that ranked highly on the leaderboards
- Wrote clear and concise technical papers detailing our research
- Technologies: Python, jupyter notebooks, pandas, sklearn, Flask

Semantic Sciences
Software Engineer

May 2016 - Aug 2016
Adelaide

- Prototyped a grant review system in an effort to secure a major contract
- Worked independently to gather requirements and prototyped the system using Meteorjs to create a video demonstrating our capability
- Techologies: Meteorjs, Javascript

Daelibs
Software Engineer

Feb 2016 - May 2016
Adelaide

- Built internal tools to streamline the setup of proprietary software on Android devices that we sold to the security personnel industry
- Built a Meteor web app that integrated with existing install & setup scripts to log device info for later ticketing and tracking
- Techologies: Meteorjs, Javascript, Python scripting

Data 2 Decisions CRC
Software Engineer Intern

Dec 2015 - Feb 2016
Adelaide

- Worked on two algorithm projects
- First project 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 project was a Dynamic Query Expansion algorithm that used NLP techniques and TFIDF to discover relevant emerging topics given an initial seed topic
- Techologies: Java8, Java Streams, Apache Spark, Stanford NLP library