

shawntan

aspiring computer scientist

online

✉ shawn@wtf.sg
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tanshawn@linkedin

languages

english (proficient)
mandarin

programming

♥ Python, JavaScript,
Java, Ruby, C, Perl

technical skills

HTML & CSS, \LaTeX ,
Linux System
Administration

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about

I currently work in the NUS Speech Recognition Group as a Research Assistant. I enjoy working on machine learning projects, and keeping up with the latest in neural networks research. I came in 3rd during the Quora Codesprint Machine Learning challenge in 2013 and maintain a blog where I write about my machine learning projects.

research interests

artificial intelligence, recurrent neural networks, machine learning,
reinforcement learning, graphical models, natural language processing, data mining

experience

- | | | |
|--------------|---|-----------------------------|
| 2014-present | Speech Recognition Group, NUS | Research Assistant |
| | Working on the machine learning aspects of speech recognition using neural networks, with applications to speaker adaptation and noise robustness. | |
| 2013 - 2014 | Semantics3 | Software/Data Engineer |
| | <ul style="list-style-type: none">• Classification of products into a hierarchical taxonomy using a cascading naive bayes model built using the Lucene index.• Name equivalency model used as part of the disambiguation process to determine if two product names are referring to the same thing.• Experimented with using conditional random fields for attribute extraction from product names. | |
| 2010 - 2012 | Web Information Retrieval and NLP Group (WING), NUS | Undergraduate researcher |
| | Did two undergraduate research projects (see next page) | |
| 2008 - 2009 | Singapore Armed Forces | Manpower Officer |
| | Administrative position managing National Servicemen | |
| 01 - 06 2007 | RHyMeS Center, Ngee Ann Polytechnic | Research/Teaching Assistant |
| | <ul style="list-style-type: none">• Provided technical support for students working on the RHyMeS project.• Facilitated workshops on using the RHyMeS SDK and API.• Taught students working on their projects how to use the Java Swing UI API | |

education

- 2009 - 2012 **Bachelors of Computing (BComp)** National University of Singapore
Major in Computer Science - Upper 2nd Class Honours
Special Programme in Computing (Turing Programme)
Focus Area: Artificial Intelligence
CAP: 4.39 / 5
- 2004 - 2007 **Diploma in Information Technology** Ngee Ann Polytechnic, Singapore
Specialisation in Software Engineering - Diploma with Merit
GPA: 3.8 / 4
- 2003 **GCE 'O' Levels** Mayflower Secondary School, Singapore

projects

- 10 2014 **Neural Turing Machines implementation in Theano**
Implementation of system described in "Neural Turing Machines." by Alex Graves, Greg Wayne, and Ivo Danihelka.
- 2012 **Predicting Web 2.0 Thread Updates**
A method to estimate arrival times of new posts to forum discussion threads and an evaluation metric for measuring the effectiveness of an incremental crawler of a site with time-sensitive data.
- 04 2012 **Focused Web Crawling using Markov Decision Processes**
Using the least-squares policy iteration algorithm and some heuristics to perform focused crawling. For CS4246R AI for Planning and Decision Making (Research Project)
- 2010 - 2011 **grabsmart: A User-centric Web Information Extraction System**
An integrated system that allows users to easily select portions of a page to extract, and subsequently extracts the data in a manner that is robust to site layout changes.
- 04 2011 **LSPI Tetris Agent**
Application of the least-squares policy iteration algorithm to play Tetris as part of the CS3243 Introduction to Artificial Intelligence course. The agent can complete 100,000 lines on average, and up to a maximum of about a million lines.

organisations

- 2010 - 2012 **NUS Hackers** Coreteam Member (Member of Executive Committee)
Duties include facilitating NUS Hacker activities: Hack & Roll 2012, Friday Hacks (a weekly tech talk), and maintaining the download.nus.edu.sg mirror service.
- 2003 - 2012 **Singapore Scouts Association** Assistant Venture Scout Leader
Attached to the Mayflower Secondary School Boy Scouts Group. Duties include facilitating camps, weekly meetings, and mentoring both scouts and ventures.