

shawntan

aspiring computer scientist

online

✉ shawn@wtf.sg
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languages

english (proficient)
mandarin

programming

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

technical skills

HTML & CSS, \LaTeX ,
Linux System
Administration

♂ Tan Jing Shan, Shawn

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about

I'm currently a Masters student at the University of Montreal, where I work at the Montreal Institute of Learning Algorithms (MILA). I enjoy working on machine learning projects, and keeping up with the latest in neural networks research. I 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

- | | | |
|--------------|---|-----------------------------|
| 2016-present | Montreal Institute for Learning Algorithms, University of Montreal | Masters Student |
| | Working on deep learning research. | |
| 2014-2016 | Speech Recognition Group, National University of Singapore | 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

2016-present	Masters of Computer Science	University of Montreal
2009-2012	Bachelors of Computing (BComp) Major in Computer Science - Upper 2 nd Class Honours Special Programme in Computing (Turing Programme) Focus Area: Artificial Intelligence CAP: 4.39 / 5	National University of Singapore
2004-2007	Diploma in Information Technology Specialisation in Software Engineering - Diploma with Merit GPA: 3.8 / 4	Ngee Ann Polytechnic, Singapore
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 Duties include facilitating NUS Hacker activities: Hack & Roll 2012, Friday Hacks (a weekly tech talk), and maintaining the download.nus.edu.sg mirror service.	Coreteam Member (Member of Executive Committee)
2003-2012	Singapore Scouts Association Attached to the Mayflower Secondary School Boy Scouts Group. Duties include facilitating camps, weekly meetings, and mentoring both scouts and ventures.	Assistant Venture Scout Leader