Jiaan(Jesse) Wang

☏ (+1)608-609-9142
✉ jwang682@wisc.edu
🖥 www.wangjiaan.com

Education

2015–2018	**MS in Computer Science**, *University of Wisconsin-Madison*, Madison,WI.
GPA:	4.0/4.0
2011–2015	**BS in Information Engineering**, *Shanghai Jiao Tong University*, Shanghai, China.
GPA:	3.4/4.3

Relevant Coursework

University of Wisconsin-Madison

computer science
Pattern Recognition, Machine Learning, Computer Networks, Algorithm Design, Operating Systems, Mobile and Wireless Networking, Database Management Systems

Shanghai Jiao Tong University

computer science
Programming in C++, Databases, Embedded Systems, Data Structures, Programming in Python

Project Experience

SDN Applications for Routing and Load-Balancing, *Java, Mininet*.
For this project we implemented two control applications for a software defined network (SDN) in Mininet. Layer-3 routing application installed rules in all SDN switches to forward data packets to their target hosts using the shortest, valid path through the network based on Bellman-Ford algorithm. Load balancer application redirected new TCP connections to other backend hosts based on a round-robin scheduler.

Todo List app, *React, Bootstrap, Javascript, HTML*, www.wangjiaan.com/todo.
For this project, I built an application as a task manager. With this app you can create, edit, organize and remove tasks as you want. This project's front-end is mainly based on React and Bootstrap library, all the data of each tasks is stored in firebase.

Simple DNS Server, *Java, Linux*.
This project aimed at implementing my own simple DNS server. This server accepted queries from clients, and issued queries to other DNS servers in order to respond to client queries. Besides responding basic queries for A, AAAA and CNAME record, it also appended a special TXT record in response if an IP address belongs to an Amazon EC2 region.

An Expert System in Answering 8th-Grade Questions, *Python, Pattern Recognition*.
This project was finished for a Kaggle Competition (The Allen AI Science Challenge). For the feature engineering, we chose nouns in the problem as features and did feature selection. The proposed method combined random forest and SVM(support vector machine) to train the model with 35% accuracy for four-choice problems.

Technical Experience

languages	Java, Python, JavaScript, HTML, C++
technologies	Django, React, SQLite, LaTeX, Bash Scripting, Git, Vim, jQuery, Bootstrap, Windows, Ubuntu & Red Hat Linux, OSX, Eclipse, Apache