# Chen Qian (Thomas)


CONTACT INFORMATION

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## EDUCATION

**Stanford University** Sep. 2016 to Present
- M.S in Electrical Engineering (Software and Hardware Systems track)
- **GPA**: 4.0
- relevant coursework: Programming Abstractions, Design and Analysis of Algorithms, Machine Learning, Object-Oriented Systems Design, Mining Massive Data Sets , Natural Language Processing

**Beijing University of Posts and Telecommunications** Sep. 2012 to June. 2016
- B.E in Communication Engineering
- **GPA**: 92.11/100 **Major GPA**: 94.24/100
- relevant coursework: Data Structures, Java Programming, Web Application Design&Development, Database Technology and Application

## COMPUTER SKILLS

- Programming Languages
  Java, C++/C, Python, PHP, SQL, HTML/CSS, Assembly
- Techniques
  OOP, MATLAB, Hadoop, Database, scikit-learn, Caffe, LaTeX, Linux,

## PROJECTS

**Stock Price Prediction Based on Machine Learning** Sep. 2016 to Dec. 2016
- Designed and implemented models based on financial report data and analytical articles data to predict stock price movement.
- Selected features from financial report and applied PCA to remove correlation.
- Analyzed the sentiment of analytical articles using Stanford NLP tool and represented the sentiment in a $R^5$ vector as the input of our model.
- Built models based on **SVM, Naive Bayesian and Boosting** using **scikit-learn**, and achieved 69.8% highest prediction accuracy.

**Face Verification through Deep Learning Methods** Mar. 2016 to June. 2016
- Built a **deep learning** model by Caffe achieving 95% face verification accuracy on LFW.
- Applied batch normalization to improve the learning rate by 250%.
- Compared the performance of model applying deepID2 supervisory signal and model using pure verification signal.
- Applied the model on delicate-scale face verification and achieved 88% accuracy.

**Online Course Selection System** Sep. 2015 to Dec. 2015
- Built a simple course selection system with **web UI**, which supports selecting, canceling courses for students, and supports uploading grades for teachers.
- Took responsibility of designing and building the web UI (**HTML + CSS**), and transferring data to the backend.

**Interactive Projection Screen** May. 2014 to May. 2015
- Project Aim & Focus: To equip projection with all functions of a touch screen.
- Realized communication among four major modules by **Java network programming**.
- Localized users' events by image processing using Java.
- Improved system accuracy to over 95% through algorithm refining.

**Self-balancing Robot Based on Arduino** June. 2014 to Aug. 2014
- Project Aim & Focus: To design and invent a self-balancing robot based on Arduino.
- Implemented PID method by **C programming** to enable the robot to balance itself
- Enabled the robot to straight forward, turn and adjust its speed under commands by C programming.

**Online Chatting Program** Mar. 2014 to June. 2014
- Designed and implemented a simple chatting program supporting logging in/off, chatting with multiple friends simultaneously, saving chatting history.
- Used **C++ network programming** and **MFC** to realize all functions.
- Applied **multi-thread** tech to handle simultaneous chatting.

## EXPERIENCE

**Research Assistant**, Institute of Signal Processing, Tsinghua University Sep. 2014 to Jan. 2016
- Leaded research project *Sensing and Recognition for MPTP scenario with Noise Uncertainty*.
- Simulated the target scenario and implemented our proposed algorithm on MATLAB.
- Applied cooperative sensing to improve the sensing performance and implemented on MATLAB.
- Finished two papers (one conference & one journal) as the major contributor.