THEODORE CHANG

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EDUCATION

New York University September 2014 – May 2018
Major: Computer Science
GPA: 3.3
Junior

COURSE WORK

Machine Learning *neural networks approach, support vector machine, large scale data ML, principal component analysis, regression, unsupervised learning, regularization*

Computer Vision *optical flow, edge detection, wavelets, stereo vision, machine learning approaches, cv library*

Object Oriented Programming *C++, inheritance, polymorphism, templates, pointers, dynamic memory,*

Operating Systems & Computer System Organization *assembly language, Linux architecture, internal data representation, resource managing*

Basic Algorithms & Data Structures *dynamic programming, graphs, sorting algorithms, trees structures, greedy algorithms*

Data Analysis *probability, null hypothesis testing, confidence interval, central limit theorem*

Multi Variables Calculus & Linear Algebra

PROJECTS

Hand-writing Recognition *computer vision using machine learning*
Used one-vs-all logistic regression in multiclass neural networks to recognize hand-written digits; 97.5% accuracy.

Spam Classifier *machine learning*
Used support vector machine to create a vocabulary list for filtering spam emails. 98.5 % accuracy on 1000 test emails after being trained with 4000 emails.

Simple Chatter Bot *personal machine learning project*
In C++, the chatter bot learned to interact from the user. It also replied vocally by using e-speak extension.

Jump Cloud Migration *system administration at JS Tech*
Migrating profiles from domain server to cloud at client company. Many obstacles presented.

Low Voltage Wire Set Up *IT contract at JS Tech*
Wiring and sometimes programming intercom system, Ethernet, HDMI and etc.

Medieval War Board Game *object oriented programming*
C++. Noble objects hired fighter objects. Using inheritance and polymorphism, fighter objects were divided into three types.

SKILLS

C++	Python
MATLAB / Octave	SPSS

EXPERIENCE

Network System Administration Intern *JS TECH. New York, NY. January 2017 – Present.*

Administrating local server and cloud server for a client ad agency company. Also overlooking general IT problems such as profile managing, remote-desktop help, and anti-virus management.

Assistant Engineer *Fusion Inc. Buford, GA. 2013- 2014*

Assist in building temporary car-show platforms. Schedule oriented work; hours were adjusted in order to meet contracts.