Jincheng Zhang

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Education

Computer Science B.S. Brandeis University   GPA 3.5 May 2017

Computer Science B.S. Columbia University in the City of New York   May 2019

Linear Algebra, Multi-variable calculus, Probability & Statistics, Discrete Math, Structures and Interpretation of Computer Programs, Spoken Dialog Design, Web Development & Incubator, Data Structures, Computer Science Theory, Software Engineering, Operating System, Artificial Intelligence, Machine learning, Advanced Programming in Unix Environment, Analysis of Algorithms

Programming Skills Stack

Proficient: C++, Java, Ruby, Python, Javascript, HTML5/CSS3   Prior Experience: C#, Emacs Lisp, Scheme

Familiar with: Meteor.js, Ruby on Rails, Node.js   Can use: Angular 2, iOS cocoa, Bash, Git, Unix, Linux Apache, Nginx

Experience

Handwritten Math Expressions Recognition   Spring 2017

Created a preprocessor and a classifier to recognize basic handwritten math expressions with Convolutional Neural Network in Tensorflow, and OpenCV. Team of 3.

Voice Control Chess   Summer 2015

A voice-enabled chess game: designed a rule based NLP and Dialog System to move chess by voice

Created a PvP match feature with meteor's built-in socket based push data service

Html5/CSS3&Flexbox/Javascript/Meteor.js/MongoDB/Regex. Team of 3.

Duewiz - Homework Reminder   Spring 2016

Web scraping School's education website to make due dates for homework manageable

Ruby on Rails 5: Action Cable (web socket), Active Job (asynchronous processing), redis cache

Web scraping with mechanize (CSS selector and XML XPath). Team of 4.

Cars Simulation at toll   Spring 2017

A simple python MVC architecture to visualize/animate a cellular automaton model to simulate car streams traffic at toll.

Python 3, MVC, matplotlib animation

Code2html – Atom editor plugin

More than 400 public downloads. Convert code to html based literals to render in my blog website   Spring 2016

Chat Program in LAN

Chat server and multiple clients implemented with GUI, TCP/IP winsock (socket API)   Visual Basic 2012

Leadership and Teamwork

Team leader and major code contributor in computer science projects all listed above.

Volunteer leader of tour guides of a former residence in Qing Dynasty.   2011-2014

Awards

Second Class in National Olympiad in Informatics in Provinces   C++, Algorithms Competition 2013

Youths Developers Seminar Hackathon first place   iOS, Objective-C, HTTP Restful with AFNetworking 2014

First place in Computer Science Research & Study in High School Affiliated to Renmin University of China

Wrote a thesis on two-way conversion of code and its flowcharts (parsing C++) (GUI in C#) 2013