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## **Programming backgrounds summary**

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My experiences are mainly on software engineering: building full stack apps/websites on different platforms. Currently I am learning in Intelligent System's track and learning those algorithms that deal with massive data.

## **Programming Skills Stack**

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Languages:

Proficient: Java, Ruby, Python, Javascript, HTML5/CSS3

Prior Experience: C++ for algorithms, R, C#, Emacs Lisp, Scheme

Techs/Systems/Frameworks:

Familiar with: Meteor.js, Ruby on Rails, Node.js

Can use: Ionic 2/Angular 2, React.js, iOS cocoa, Bash, Git, Linux, Apache, Nginx

## **Education**

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**Computer Science B.S.** Brandeis University

GPA 3.5 Fall 2014 – Present

## **Courses Experience**

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**Math:** Linear Algebra, Multi-variable calculus, Statistics, Discrete Math

**Computer Science:** Intro to Java and c, OOP with Java, Structures and Interpretation of Computer Programs, **Spoken Dialog Design, Web Development & Incubator**, Data Structures, Theory of Computation, **Software Engineering, Operating System, Artificial Intelligence**

## **Experiences**

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**Voice Control Chess**

Summer 2015

6300 lines of code (Me)

Rule based NLP and Dialog System to move chess by voice

PvP match with meteor's built-in socket based data service (push data)

Html5/CSS3&Flexbox/JS/Meteor.js/MongoDB/Regex

### **Duewiz - Homework Reminder**

Spring 2016

4200 lines of code (Me)

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)

### **Personal Blog Website**

Spring 2015 – Present

<https://www.jczhang.com>

At first with ghost on node.js then move to wordpress (on linode)

Wordpress, LEMP, DNS, SSL, server maintenance, linux, vps

### **Atom-code2html**

Spring 2016

100 lines of code

More than 300 downloads

An atom editor package that copies the selected region's code and convert html literals and wrap `<pre><code>` blocks to make it html ready

Coffeescript, Atom package

### **Cars Simulation at toll**

Spring 2017

500 lines of code

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

Python 3, MVC, matplotlib animation

### **Computer Science Research & Study**

2013

1300 lines of code (Me)

Conversion from codes (C++) to flowcharts (A code editor like interface)

Visual C# .NET 4.0 2013

Conversion from flowcharts to codes (flowchart visualization and built-in VBScript interpreter)

Visual Basic 6.0 2013

Wrote a thesis on two-way conversion of code and its flowcharts

Won first place (Co-op with another student) in High School Affiliated to Renmin University of China

**Software Audio Repeater Wrapper for Windows Media Player**

2009

When playing audio files, allows to repeat between a start timestamp and an end timestamp

Visual Basic 6.0/Windows Media Player ActiveX

**Chat program in LAN (both Server and Client)**

2009

One client and one server, communicating using Winsock over TCP/IP protocol

Visual Basic 6.0/Winsock

**Static information site for ancient Chinese articles**

2010

Show both original article and its translation within one page but in different frames (we don't have the equivalent concept in html5 now). Click a link on the article, shows corresponding translation on the bottom frame (using anchors(Dreamweaver) to navigate)

Html/Dreamweaver

**Random name picker from class list (with animation)**

2012

The UI's thread is shuffling names: the background timer thread update (invoke UI thread) a new name on main UI. When clicked, a random name is picked.

Visual C# .Net 4.0 WPF Multi-threading

**iOS HTTP login demo**

2014

Login user over HTTP protocol to get an activities list from hackathon

Objective-C, iOS 5, AFNetworking

## **Awards**

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Second Class in National Olympiad in Informatics in Provinces	C++, Algorithms Competition 2013
Youths Developers Seminar Hackathon first place	iOS, Objective-C, AFNetworking 2014

Note:

Projects before college are not hosted online (some not under VCS, some on Google Code SVN which has moved), and most of other projects are hosted on [Github](#). Those under VCS I know about how many lines of code I programmed.

Last edit: 2/9/2017