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Programming backgrounds summary

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

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

Computer Science B.S. Brandeis University

GPA 3.5 Fall 2014 – Present

Courses Experience

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

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

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