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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

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

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

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.