**Yang Zhang**

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**EDUCATION**

**Washington State University, Pullman, WA**

M.S., Computer Science(in progress)08/2016 – 05/2018

GPA: 3.38/4.0

**University of Washington, Seattle, WA**

B.S., Electrical Engineering09/2010 – 12/2014

GPA: 3.42/4.0

**TECHNICAL SKILLS**

**Language:** Java, Python, C, C++

**Programming Concepts:** Objected-Oriented Programming, Complexity Analysis and MVC

**Web Technologies:** Django, React, JavaScript, HTML, XML, CSS, PHP, AJAX

**Operating Systems:** Linux, Mac OS X and Windows

**Database:** CouchBase, SQL Server, SQLite and MySQL

**Machine Learning:** Deep Learning, Reinforcement Learning(such as Q-learning)

**WORK EXPERIENCE**

**Research Assistant** Aug. 2017 – Present

*Adaptive System Lab of architecture department at WSU*

* Developed REST API backend server, control apps through Tobii eye tracker and Emotiv EEG headset and the Raspberry pi based client-side control unit for the physical models

**Sys Admin Intern** Jun. 2017 – Aug. 2017

*Expeditors, Seattle, WA*

* Developed the Automated Continuous Integration (ACI) web tool for Gitlab CI (Python with Django)

**SDE Intern** Jun. 2014 – Sep. 2014

*Qikspace, Seattle, WA*

* Implemented push notification, synchronization service and basic cache server (python server and Android)

**PROJECT EXPERIENCE**

**Message Wall (Python REST)**

* A message board app using Django REST API as backend and React JS as frontend

**Checkstyle extension plug in (Java)**

* Based on the starndard Checkstyle (eclipse plug in), extends the tool with more anti-pattern detection including (blob class, feature envy and duplicate code)

**Chinese Segmentation Tool (Java)**

* Implemented a Chinese Segmentation tool by applying Hidden Markov Model.

**Flappy Bird Agent by Q-Learning (Python)**

* Implemented a Q-learning agent that can constantly achieve score more than 500 points in the classic game Flappy Bird.

**MemoMe (Notebook application for Android)**

* A notebook Android app allow users to manage their daily memos

**Minesweeper game in Java**

* Implemented replica of the classic Microsoft game Minesweeper, include all original functions

**Snake game in Java**

* Implemented replica of the classic Nokia snake game, with original playing style

**Video Store Application in SQL Server**

* Designed ER diagram and relational model and client-side application, which consists of SQL Server, transaction management, SQL injection prevention to enable the users to rent/return films, change viewing plan and check the availability of films.