

Yang Zhang

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EDUCATION

Washington State University, Pullman, WA

M.S., Computer Science (in progress)

08/2016 – 05/2018

GPA: 3.6/4.0

University of Washington, Seattle, WA

B.S., Electrical Engineering

09/2010 – 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: 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 web app using Django REST API as backend and JavaScript as frontend

Checkstyle extension plug in (Java)

- ❖ Based on the standard 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.