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FDUCATION

CORNELL UNIVERSITY

MPS IN INFORMATION SCIENCE

May 2017 | Ithaca, NY Cum. GPA: 3.60 / 4.0

BS IN LANDSCAPE ARCHITECTURE

Jan. 2014 - May 2016 | Ithaca, NY Conc. in Computer Science College of Agriculture and Life Science

Dean's List (2015 Fall) Cum. GPA: 3.50 / 4.0

SHANGHAI JIAO TONG UNIVERSITY

Sep. 2011 - Dec. 2013 Shanghai, China

LINKS

Github://zxiang77 LinkedIn://zili-xiang Kaggle://zxiang77 Website://zilixiang.me StackOverflow://Peter-Paul

RELEVANT

COURSEWORK

Operating System
Database System
Machine Learning
Computer Graphics + Prac
Deep Learning (Coursera)
Artificial Intelligence
Natural Language Processing
Data Structure
Web Development (as TA)
Discrete Structure

RELEVANT SKILLS

Java • J2EE • Spring OpenGL (GLSL and WebGL)

•C/C++ • PHP • CSS • HTML

MySQL • MongoDB

Python • Spark • word2vec

Numpy • Scipy

JavaScript • iQuery

React • Redux • react-d3

Node.js • Express • ejs

IBM Watson

RFI FVANT FXPFRIFNCE

MINITWITTER API Spring Boot, h2, Java EE, Groovy

June 2017 - July 2017 | Ithaca, NY

- Implemented Spring Security to manage the access to different part of the API
- Linked API to h2 database interface with named parameter JdbcTemplate

QUESTION ANSWERING SYSTEM ON SQUAD Python, Spark

Oct. 2017 - Nov. 2017 | Sunnyvale, CA

- Pre-processed SQuAD (Stanford Question Answering Dataset) with PySpark, and NLTK tool kits
- Extracted contextual and named entity information features from text and compute tf-idf index for question-sentence cor-relational features
- Trained logistic regression model using MLlib tool

IRRIGATION DECISION WEB APPLICATION React.js, Redux, Node.js

Jan. 2017 - May 2017 | Ithaca, NY

- Developed a mobile irrigation decision assistant with React.is
- Implemented Redux as state container to manage user profile
- Consumed RESTful API to retrieve weather forecast data

COMPUTER GRAPHICS + PRACTICUM OpenGL(GLSL, WebGL) and Java

Jan. 2017 - May 2017 | Ithaca, NY

- Reduced running time complexity of ray tracing from $O(n^2)$ to $O(n \log n)$ with KD tree.
- Implemented frame buffer and skybox for Maze Crawler animation rendering
- WebGL related projects are up on my website as Water simulation and Maze Crawler

BREAKTHROUGH Node.js, JavaScript, Python, IBM Watson

April 2017 - April 2017 | Ithaca, NY

- Implemented a chatbot web app with IBM Watson to help high school students with disability identify their career path
- Designed and implemented a matching scoring algorithm

AMBIGUITY PHRASE DETECTION (NLP) Python, NLTK, Numpy, word2vec

Aug. 2016 - Dec. 2016 | Ithaca, NY

- Implemented HMM, CRF and deep learning based package to detect ambiguity phrase.
- The best result reached 39% of accuracy and ranked top 10% in Kaggle competition.

OPERATING SYSTEM PROJECTS C/C++, Python

Aug. 2016 - Dec. 2016 | Ithaca, NY

- Built concurrent programs with mutex, semaphore and condition variables
- Developed messaging network connection with C TCP socket interface

ADDITIONAL EXPERIENCE

TEACHING ASSISTANT | INTERMEDIATE WEB PROGRAMMING

Jan. 2017 - May 2017 | Ithaca, NY

- Held weekly office hours helping with debugging JavaScript, PHP and SQL
- Prepared weekly discussion and taught back-end technologies (SQL, PHP, phpMyAdmin, JavaScript, jQuery, Ajax and HTML)

RESEARCH ASSISTANT | SOCIAL DYNAMICS LAB

July 2016 - Sep. 2017 | Ithaca, NY

- Developed tools to monitor Twitter stream and built ngram model based on stream data with mongoDB
- Implemented and optimized bidirectional BFS for social networks to find shortest paths between users in CPython
- Implemented Yen's k shortest path algorithm to test the robustness of connections on social networks