WEIHAN LI

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA   05/2021

Bachelor of Science in Discrete Math and Computation   GPA: 3.9/4.0

Double Major in Computer Science   Dean's List, High Honors

Selected Coursework: Principles of Imperative Computation, Principles of Functional Programming,   in Fall 2017, Spring 2018
Natural Language Processing, Great Ideas in Theoretical Computer Science

EXPERIENCE

Research Assistant at Human Computer Interaction Institute, Carnegie Mellon University   08/2018-Now

- o Designed a defense-attack game featuring virus and defending bricks
- o Built PC-functional prototype using PyGame and full version game using Unity based on conducted playtests

Software Engineer Intern at Microsoft STCA-Ads Team, Beijing   05/2018-08/2018

- o Analyzed correlation between data and conducted anomaly detection to build counter analysis module in an auto-Direct Response Individual tool using Python
- o Clustered data by description using Natural Language Processing
- o Built data structures using XML and created web app to visualize using jQuery

PROJECTS

Wiki Question-Answering System   09/2018-11/2018

- o Conducted answering system given questions and wiki file using NLP algorithms
- o Narrowed down to target sentence using tf-idf and cosine similarity
- o Parsed sentence tree and left with most concise form using basic grammar

Web app Smart Colors   07/2018

- o Compiled data to create database and constructed the Front-End and Back-End of the web app to give fashion and color combination suggestions using Django
- o Cooperated on extracting data from internet using web scraping

App *LogChat*   02/2018

- o Exported sorted and automatically formatted worklogs using Machine Learning
- o Collaborated on building a chatroom for group work using sockets

Star-Trek Style 3D Chess   11/2017

- o Built 3D interface and rotatable views and programmed 3D chess rules using Panda 3D
- o Enabled one-player mode and best next move suggestions using AI algorithms

SKILLS

Language Mandarin (Native), English
Tools pandas, numpy, Panda 3D, Open CV, XML, Django, jQuery

Programming Python, C/C++, Standard ML, HTML/CSS, JavaScript, C#(intermediate), Java(basic)
Applications LaTeX, Markdown, Unity, Adobe Photoshop, Adobe InDesign, Google SketchUp

HONORS

Virginia Tech Regional Mathematics Contest 2018 (North America) Ranked top 5%

William Lowell Putnam Mathematical Competition 2017 (North America) Ranked 255

Puzzle Hunt of Fundamentals of Programming and Computer Science(15112) Ranked 3rd