DONGQI (BLAIR) WANG

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA | May 2020

Majors: Computer Science and Physics | GPA: 4.0 / 4.0

Relevant courses: Imperative Programming, Functional Programming, Computer system, Great Theoretical Ideas, Physical Analysis, Quantum Physics, Experimental Physics

SKILLS

Programming Languages: Python, C, SML, HTML, CSS, Java, JavaScript, Latex

Languages: English, Chinese, Spanish, Italian

Certification: Certified pianist by Central Conservatory of Music in Beijing

PROFESSIONAL EXPERIENCE

Teaching Assistant for Fundamentals of Programming (15-112) | CMU | Summer 2017

- taught python and fundamental computer science concepts
- Led recitations weekly, held boot camps, office hours and grading sessions
- Mentored students on a month long final project

Teaching Assistant for Computer System (15-213) | CMU | Spring 2018 - Current

- taught machine-level code and its generation by optimizing compilers, performance evaluation and optimization, computer arithmetic, memory organization and management, networking technology and protocols, and supporting concurrent computation
- Modified and helped students debug 8 labs from past years corresponding to the above topics
- Have been the recitation head, led recitations weekly, held boot camps, office hours and grading sessions

PROJECTS | Portfolio website: blairwang.tk

Pendulum Lab | Fall 2017

- Developed an educational app that conveys the beauty of physics
- Used python to simulate the movements of pendulums, and give user the ability to customize their pendulums and control gravity

Hurricane Hero (team work) | Spring 2017

- Created a website that aims to defeat hurricane by building a point-to-point hurricane aid network
- Used python and google map API and Facebook chatbot API

EXTRACURRICULAR

Software Development Engineer for Robotics Club | CMU| Fall 2017 - Current

- Currently working on training the robot players to generate their own music based on given classical pieces using Markov chain.

Teaching CS for Social Good |CMU | Summer 2017

- Instructed Pittsburgh high school computer science teachers during CMU Regional K-12 CS Teachers Summer Workshop that aimed to help underprivileged students to get a better CS education.