Jiayi Zheng

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Education	**SUNY-University at Buffalo**, Buffalo NY	Expected May 2020
	- B.S. in Computer Science	GPA 3.7/4.0
	- B.S. in Mathematics – Actuarial Science Concentration	Dean's List

Coursework

Machine Learning (Python)
Software Engineering Concepts (JavaScript)
Algorithm Analysis and Design (Python & Java)
Programming Language (OCaml)
Data Structures (C++)
STEM Communications

Experience

Engineering Intramural Program (Python), Buffalo NY   (Fall 2018)
- Worked with Curbell Medical Products, Inc.
- Characterized Human Movement Using a Wearable Device.
- Defined problems, designed whole project, and looked for temporary dataset.
- Implemented three deep learning models, and compared performances of three models.
  (Random Forests, CNN, and KNNs).
- Collected and processed data from a wearable device to reliably differentiate between
  different human movements.

Undergraduate Research (Python), Buffalo NY   (Summer 2018)
- Deep Learning Eye-Hand Coordination Rehabilitation.
- Mainly extracted needed part from Open Pose and Deep Gaze Library.
- Captured human movement and gaze activities.

Banking Customer Data System (C++), Buffalo NY   (Fall 2017)
- Built a system to store customer dataset: customer ID, current balance, and pending
  transactions.
- Could add, remove customer. Could add, process transactions. Could get customer and
  transaction information.
- Got familiar with different data structures and designed algorithms to optimize runtime
  and space usage.

Crime Hunter (JavaScript), Buffalo NY   (Spring 2018)
- 2D Game with using the Phaser library – released.
- Built in-game Physics, game objects, and game environment.
- Link: http://crime-hunter.herokuapp.com/www/index.html

Skills

Programming Language
- Python (Proficient), Java (Proficient), Swift (Familiar), C++ (Familiar), JavaScript
Technologies / Environment: Mac OS, Linux, Windows
Language: English, Chinese (Mandarin)

Honors

Robert B. Kleinschmidt Memorial Scholarship   (Fall 2018)

Activities

Society of Future Actuaries, University at Buffalo   (Fall 2018 ~ Current)
- Attended every General Body Meeting and Study Session weekly.
- Attended weekly workshops, such as, Excel workshop, SQL workshop

Association for Computing Machinery, University at Buffalo   (Fall 2016 ~ Current)
- Attended activities like UB Hacking and professional development workshops.