Zhihong Jiang

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EDUCATION

New York University, Tandon School of Engineering   **Brooklyn, NY**
Candidate for a B.S degree in Computer Science   Expected Fall 2024
Relevant Course: Object Oriented Programming, Computer Architecture, Databases, Computer Graphics
Candidate for a minor in Mathematics, Game Engineering   Expected Fall 2024
The Pennsylvania State University, College of Engineering   **University Park, PA**
Was a candidate for a B.S degree in Data Science   September 2020 - May 2021
Relevant Course: Python & C++ Programming, Data Structures, Data Sciences   GPA 3.74
Elite Preparatory Academy   **Somerset, NJ**
Relevant Course Work: Honor Programming, Honor Calculus   June 2020

PROFESSIONAL EXPERIENCE

Massachusetts Institute of Technology Deep Learning Research   June - August 2021
- Developed a cancer diagnosis application with a user interface, a Convolutional Neural Network backend for classification, and a natural language processing program for communications
- The Convolutional Neural Network based training model achieved an accuracy of 89%.
- The outstanding performance earned a recommendation letter from Professor Mark Vogelsberger
- Research papers adopted and published in SPIE Digital Library

Indie Game Development   January 2022 - August 2022
- Achieve an original physics engine written in C++ and openGL, supporting accurate volume collisions, physics linkage, and realistic performance effects.

RELAVANT ACTIVITIES

NYU LeetCode & Data Science Bootcamp & Poly Programming Club   January 2022 - May 2022
- Increased the knowledge depth of data science/analytics about Data wrangling, Exploratory data analysis, Model construction and Visualization with Tableau
- As a club and competition team member, finishing online programming competitions once a week and get into top 10%.

National Olympiad in Informatics   August 2018 - August 2021
- Silver, Silver and Gold medals for three years in C++ and python programming experience

WORK EXPERIENCE

High School Academy Summer Session   Somerset, NJ
Teacher's Assistant   July-August 2018-2019
- Introduced the knowledge about General Engineering, Algebra 1&2, Calculus 1, Basic Programming Algorithms in classes to 200 students ages 4th Grade to 10th Grade
- Managed the organization of busy classes with hundreds of students

PROFESSIONAL SKILLS

Language: C, C++, Python, Java, SQL, Verilog, JavaScript
Library and Framework: TensorFlow, Keras, NumPy, PyTorch
Artificial neural network: Convolutional neural network, Recurrent neural network
Engine and Interface: openGL, Unity
IDE: Visual Studio, Visual Studio Code, PyCharm, Sublime Text, IDLE

Operating system: Linux, Microsoft Windows, macOS