

# Zhihong Jiang

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## EDUCATION

### **New York University**

Candidate for a B.S degree in Computer Science

**New York, NY**

Expected Spring 2024

*Relevant Course:* Object Oriented Programming, Computer Architecture, Databases, Operating System, Artificial Intelligence, Analysis of Algorithms, Game Programming, Data Analysis, Web Development

Candidate for a minor in Mathematics, Game Engineering

Expected Fall 2024

### **Elite Preparatory Academy**

**Somerset, NJ**

*Relevant Course:* Honor Programming, Honor Calculus

June 2020

## PROFESSIONAL EXPERIENCE

### **Massachusetts Institute of Technology Deep Learning Researcher**

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

### **New York University Indie Game Developer**

January 2022 - Now

- Achieve an original physics engine written in C++ with OpenGL, supporting accurate volume collisions, physics linkage, and realistic performance effects.

### **New York University Web Developer**

August 2022 - Now

- Porting my games with source code in C++ or Python to a web service using javascript and css
- Provide personal website and custom web animation on the basis of P5
- Made a web air-ticket reservation application with python as the backend and SQL as the database information processing, through HTML and javascript.

## RELEVANT 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 getting into the top 10%

### **National Olympiad in Informatics**

August 2018 - August 2021

- Silver, Silver and Gold medals for three years in C++ and python programming experience

## PROFESSIONAL SKILLS

*Language:* C, C++, Python, Java, SQL, Verilog, JavaScript, HTML, CSS

*Library and Framework:* TensorFlow, Keras, NumPy, PyTorch, P5

*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:* Microsoft Windows, macOS, Linux, Unix, XV6