

Melissa Jiang

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EDUCATION

Northeastern University, Boston, MA

May 2025

Bachelor of Computer Engineering and Computer Science, GPA 3.42

Relevant Coursework: Embedded Design, Fundamentals of Computer Science 2, Cornerstone 2, Logic and Computation, Discrete Structures, Linear Algebra & Differential Equations, Physics II

Extracurriculars: Northeastern Powerlifting Club

SKILLS

Electronics: Arduino, SolidWorks, AutoCAD, DE1-SoC Board

Programming Languages: Java, C++, Python, HTML/CSS, MATLAB, LEAN, Racket

Developer Tools: VS Code, Eclipse, PyCharm, CLion, GNU/Linux Terminal, Vim, DrRacket

Languages: Fluent in Mandarin

PROJECTS

Space Invaders Game | *Eclipse, Java*

October 2021

- Developed a recreation of the space invader game using Java's funworld library for graphics
- Implemented generic types in methods and interfaces for reusability and future modifiability
- Handled game functionality by implementing the event driven key binds into code
- Used various data structures to develop its core features

The Garden | *Arduino, SolidWorks, 3D Printer, C++*

December 2020

- Built a Rube Goldberg Machine to water plants with a team of four
- Implemented input control using buttons on an LCD display for the user to specify the number of plants to water
- Used Arduinos to build the machine's parts and control servo motors for watering mechanism
- Worked with SolidWorks to develop a 3D model of the machine
- 3D printed parts to attach to the servo motors

Jeopardy Game | *PyCharm, Python*

June 2020

- Recreated a jeopardy game using Python's tkinter library for the graphical user interface
 - Extracted data from an excel file to use in the game
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WORK EXPERIENCE

Mathnasium Instructor

May 2021 - Present

- Instructing students one-on-one with a personal curriculum to improve knowledge of math concepts
- Work alongside a team of instructors to improve individual student success
- Maintaining close communication with Center Director about potential improvements and updates on student performance

Beede Center Lifeguard

June 2018 – August 2021

- Tasked with enforcing the facilities rules to prevent possible incidents of injury to patrons
- Maintain cleanliness of pool and manage pool chemicals to ensure patron safety
- Perform swim tests