

# Yuanjie Xu

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## EDUCATION:

**University of at Buffalo – The State University of New York**

Bachelor of Science in Computer Science

GPA: 3.3/4.0

**Expected Graduation: May 2024**

## RELEVANT COURSEWORK:

- Data Structures
- Discrete Structures
- Engineering Computations
- Systems Programming
- Linear Algebra
- Calculus I and II

## TECHNICAL/NON-TECHNICAL SKILLS:

- Scala, C, MATLAB, Java, Python
- HTML, CSS, JS, React JS
- AutoCAD, Inventor, Revit
- Microsoft Word, Excel, PowerPoint
- IntelliJ, Visual Studio, VMware
- Google Docs, Sheets, Slides
- Adobe Premiere, Photoshop
- Linux/Unix, Windows 7/8/10
- Bilingual in English and Chinese

## PROJECTS:

**Instant Messenger:** C, Linux/Unix

**March 2022 - April 2022**

- Implemented packet encoding and decoding for a basic messenger protocol.
- Executed pointer arithmetic, raw memory access, and data serialization to manage structures of data.

**Conway's Game of Life:** C, Linux/Unix

**February 2022 - March 2022**

- Usage of multidimensional arrays and repeated computations to create a simulation.
- Automated functionality of data models into simplified computations and functions.

**Enemy Artificial Intelligence:** Scala, IntelliJ

**November 2021 - December 2021**

- Programmed enemy bots in a simulation game using data structure concepts such as linked lists, trees, and graphs.
- Administered algorithms that expanded the functionality of each data structure.

**Genetic Algorithm:** Scala, IntelliJ

**October 2021 - November 2021**

- Wrote algorithms to solve optimization problems without the usage of mutable variables and states.
- Employed and applied concepts of functional programming with immutable types, recursion, and functions.

## EXPERIENCE:

**Data Entry Clerk, Kumon**

**July 2021 - August 2021**

Staten Island, NY

- Assisted multiple students to strengthen, improve, and build brainstorming, analytical, and problem-solving skills.
- Entered coursework data quickly and efficiently allowing ease of access for tutors and classroom preparation.

## VOLUNTEER EXPERIENCE:

**Teacher Assistant, Asian-American Target Summer Camp**

**July 2016 - August 2019**

Brooklyn, NY

- Conducted peer to peer tutoring that enabled struggling students to increase in performance.
- Managed classroom to facilitate an optimal learning environment for teachers and students.

## ACTIVITIES:

- Vice Head of Construction, Theta Tau Professional Co-Ed Engineering Fraternity **February 2022 - Present**
- Participant, University at Buffalo Hackathon Fall 2021 **November 2021**
- Member, Stuyvesant High School Ultimate Frisbee Team **September 2016 – June 2020**
- Vice President, Stuyvesant Rubik's Cube Club **September 2016 – January 2018**