

# William Chen

718-902-1986 | [wwilliamchenn@gmail.com](mailto:wwilliamchenn@gmail.com) | [linkedin.com/in/will-ch/](https://www.linkedin.com/in/will-ch/) | [github.com/WilliamChn](https://github.com/WilliamChn)

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## EDUCATION

**University at Buffalo**, The State University of New York  
**Bachelor of Science: Computer Science**

**Expected Graduation:** June 2025

## RELEVANT COUREWORK

- CSE 191: Discrete Math, CSE 220: Systems Programming, CSE 250: Data Structures, CSE 331: Algorithms and Complexity, CSE 341: Computer Organization

## SKILLS & TOOLS

**Languages:** Python, Scala, C, Assembly

**Web Development:** HTML, CSS, JavaScript, React

**Tools:** Visual Studio, IntelliJ, Emacs, Git

## COMPUTER SCIENCE PROJECTS

### **Dynamic Memory Allocator: C**

- Implemented a dynamic memory allocator using a multi-pool approach to enhance memory management and allocation efficiency.
- Incorporated free, realloc, and malloc functions with the use of the sbrk function.

### **Vaccine Website:** HTML, JavaScript, Python, Bottle, JSON

- Accessed latest government vaccination data from the CDC database.
- Sorted and displayed the visualization of the data using plot.ly.

### **Enemy AI:** Scala

- Deployed an AI algorithm in enemy characters that allows interactions with the player and other AI characters.

### **Instant Messenger:** C, Python

- Executed packet encoding and decoding for an instant messaging protocol using void pointers and pointer arithmetic. Utilized raw memory access and data serialization techniques.

### **Hamming Code Program:** Assembly

- Implemented an error correction system that utilizes parity bits to detect and correct errors when data is stored or transmitted.
- Includes a UI that allows users to input data to encode or decode.
- Applied a validate function that checks if the Hamming Code is valid or not.

## WORK EXPERIENCE

### **Software Engineer Intern, Pulp Startup, New York, NY:** August 2023 – Present

- Learned React and CSS libraries to implement a frontend webpage prototype that features a comment section with a voting system.
- Tested functions before deployment to ensure users don't experience bugs.

### **Summer Counselor, New York Edge @ P.S.193Q, New York, NY:** July 2023 – August 2023

- Collaborated with a team of counselors and program coordinators to plan and implement a diverse range of camp activities, including sports tournaments and trips around NYC.
- Communicated regularly with parents/guardians, providing updates on campers' progress and addressing concerns.

## EXTRACURRICULAR

### **Team Member**, UB Hackathon, Spring 2022

- Worked in a group of 4 to develop a fully functional weather app within 24 hours.
- Enhanced knowledge of Git.

### **Member**, SASE, Spring 2022 – Present

- Attended professional development workshops and events.