

# Jeffrey Wong

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## EDUCATION

University at Buffalo: **B.S. Computer Science**

*Expected: Winter 2025*

## RELEVANT COURSEWORK

*CSE 442: Software Engineering, CSE 487: Data Intensive Computing, CSE 474: Machine Learning, CSE 331: Algorithms and Complexity, CSE 305: Programming Languages.*

## TECHNICAL SKILLS

- **Languages:** Python, C, Java, Javascript, Scala
- **Frameworks/Technologies:** Git, React, Node JS, Pandas, NumPy, MongoDB

## EXPERIENCE

### **CVS Health**

*Hartford, CT*

*Information Security Engineer Intern*

*May - August 2025*

- Selected for the competitive **InnoTech Internship Program** on the **Information Security & Technology Solutions (ISTS)** team
- Will support initiatives related to **Cybersecurity Engineering**, cloud infrastructure security, and compliance within a Fortune 5 healthcare organization
- Expected to contribute to secure system design, vulnerability management, and access control processes under HIPAA-regulated environments

### **Logos Community Church**

*Queens, NY*

*Mathematics Teacher*

*June - August 2023*

- Collaborated with colleagues in a team to make real-world applications and problem-solving activities into lessons, ensuring SAT math concepts were relevant and relatable to students.

## PROJECTS

### **Algorithm** | *React.js, Node.js,*

- Built dynamic, responsive front-end interfaces using ReactJS, ensuring smooth user interactions and seamless algorithm visualizations.
- Developed step-by-step visualizations for key algorithms such as BFS, DFS, Dijkstra's, and Binary Search, allowing users to explore and understand their operations in real-time.
- Created a secure backend with PHP to handle user authentication, including encrypted password storage and retrieval for account management.

### **Book Recommendation System** | *Python, Pandas, Numpy, Matplotlib*

- Used matplotlib to visualize data cleaned using EDA processes such as dropping rows / generating missing data with pandas library in Python to for users to enjoy niche personalized content for informed purchases.
- Collaborated with a team of 3 employing Flask for backend operations, facilitating user interactions through web forms and NumPy for data handling and preprocessing.
- Utilized Machine learning algorithms such as Linear Regression for price predictions, K-Means Clustering for audiobook categorization, and Logistic Regression for generating recommendations

### **Dynamic Memory Allocator** | *C*

- Developed a custom memory allocator in C, optimizing the “malloc” command by implementing a multipool architecture, which reduced memory fragmentation by 35%.
- Created system level operations that effectively handled large calls to memory requests ensuring it was allocated seamlessly.

