

# Edward Chen

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## EDUCATION AND HONORS

### Stony Brook University

Stony Brook, NY

Bachelor of Science | Computer Science/Applied Mathematics and Statistics

**Relevant Coursework:** Object-Oriented Programming, Data Structures, Programming Abstractions, System Fundamentals I & II, Software Engineering, Multivariable and Vector Calculus, Differential Equations, Applied Linear Algebra, Finite Mathematical Structures, Survey of Probability and Statistics

## TECHNICAL SKILLS AND INTERESTS

**Languages:** Python, Java, JavaScript, C++, C, HTML, CSS, R

**Design and IDE:** GitHub, VS, VSC, VIM

**Databases:** MongoDB, AWS DynamoDB, Cloud Firestore, MySQL Server

**Office Tools:** Microsoft Office Suite (Word, Excel, PowerPoint)

**Interests:** Coding, Powerlifting, Video Games, Basketball Analysis

## PROFESSIONAL EXPERIENCE

### Campus Life Centers

Aug 2022 – May 2024

#### Operations Specialist

- Orchestrated the planning and execution of events catering to over 200 students, collaborating with computer science-oriented clubs and organizations, and coordinating efforts among fellow staff members.
- Oversaw logistical arrangements, ensuring efficient event flow, and preserving engaging experiences for attendees.
- Provided technological mentorship to students that were in need during scheduled events.

### Teaching Assistant

Aug 2023 – Dec 2023

#### Object-Oriented Programming

- Instructed laboratory sessions of 30+ students on introductory programming applications such as Java basics, recursion and polymorphism.
- Actively administered the Piazza Q&A platform to address 100+ student inquiries which provided support and assistance throughout the course.
- Facilitated exam administration and grading procedures in collaboration with the professor, ensuring academic standards and evaluation of student performance.

## PERSONAL PROJECTS

### Process Management App

May 2024

- Created "Mediflow", a versatile application designed for managing over 1000 accounts which consist of resources, equipment, rooms, procedures, processes, rosters, assignments, and participation.
- This system is adaptable for use in various industries, including healthcare, to streamline operational workflows.
- Employed a MongoDB backend architecture to ensure efficient storage and management of user-generated data, including securely encrypted account information.
- Integrated Socket.IO API for communication between users and administrators.

### Recipe Generator Website

March 2024

- Developed "Nourish Nexus" during YHACK 2024, a web app that leverages OpenAI's API for crafting custom recipes aligned with users' fitness goals and the ingredients they have on hand.
- Focused on backend development, integrating cloud storage for data management to support 300+ recipes and users.
- Implemented front-end design, using React.js and Material UI to introduce modal features for easy recipe viewing and handling.

### Stack Overflow Clone

May 2023

- Structured a website reminiscent of Stack Overflow using the MERN Stack, offering support for over 200 users and the ability to register accounts, participate in forum discussions, and engage with posted content within a community related environment.
- Implemented functionalities such as tagging and search, allowing users to categorize their posts effectively and to locate relevant content.
- Supports sessions to maintain user state and persistence within the application.