

# Edward Chen

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## EDUCATION AND HONORS

### Stony Brook University

Bachelor of Science / Computer Science/Applied Mathematics and Statistics

Stony Brook, NY

Expected May 2025

**Relevant Coursework:** Data Structures, Programming Abstractions, System Fundamentals I & II, Software Engineering, Machine Learning, Data Science, Numerical Analysis, Multivariable and Vector Calculus, Differential Equations, Survey of Probability and Statistics, Computational Geometry

## TECHNICAL SKILLS AND INTERESTS

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

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

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

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

**Interests:** Powerlifting, Basketball

## PERSONAL PROJECTS

### Statistics Analyzer

December 2024 - Present

- Structured a website using MERN Stack, offering support for over a 1000 users to view NBA players statistics and data rankings.
- Implemented functionalities such as numerical analysis, custom statistic formula creation, and dynamic sorting, allowing users to categorize and explore datasets for specific boundaries.
- Supports sessions and account management to maintain user state and persistence within the application.

### Process Manager

March 2024 - May 2024

- Created "Mediflow", a versatile application designed for managing over 1000 accounts which consisted 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

March 2024

- Developed "Nourish Nexus" during Y-Hack 2024, a web application 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.

## PROFESSIONAL EXPERIENCE

### Campus Life

Aug 2022 – May 2024

#### IT Operations Specialist

- Orchestrated the planning and execution of events catering to over 200 students, collaborating with computer science-oriented clubs, 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 programming, 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.