

# Edward Chen

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## EDUCATION

### Stony Brook University

*Bachelor of Science | Computer Science/Applied Mathematics and Statistics*

**Stony Brook, NY**

*May 2025*

**Relevant Coursework:** Software Engineering, Data Structures, Analysis of Algorithms, Machine Learning, Data Science, Numerical Analysis, Computational Geometry

## PERSONAL PROJECTS

### Statistics Analyzer

**March 2025 – Present**

- Launched a MERN-based web platform that serves 1,000+ users with live NBA player stats, leaderboards, and interactive charts.
- Embedded an analytics engine featuring custom-trained ML models to produce accurate season-ahead forecasts, alongside tools for on-the-fly numerical analysis and user-defined statistical formula creation.
- Secured the application with a JWT-based session management system to maintain user state and persistence.

### Process Manager

**March 2024 – May 2024**

- Developed “Mediflow,” a full-stack web application that manages 500+ user accounts through RESTful APIs, supporting resources, rooms, procedures, and rosters in real time.
- Engineered a modular architecture that can be re-skinned for multiple sectors (e.g. healthcare) to automate and streamline day-to-day operational workflows.
- Implemented a secure, indexed MongoDB data layer with role-based access and encryption, ensuring fast queries and protecting all account information end-to-end.

### Recipe Generator

**March 2024**

- Created “Nourish Nexus” at Y-Hack 2024 – a full-stack web app that calls OpenAI’s API to generate tailor-made recipes from a user’s fitness goals and on-hand ingredients.
- Architected the backend and linked cloud storage to persist 300+ recipes and user profiles, ensuring efficient storage and easy horizontal scaling.
- Built an intuitive React.js front end with Material UI modals and responsive layouts, giving users smooth access to recipe details and in-browser interaction.

## PROFESSIONAL EXPERIENCE

### Stony Brook Campus Residences

**Aug 2022 – May 2024**

*IT Operations Specialist*

- Orchestrated the planning and execution of events catering to 200+ students, collaborating with computer science-oriented clubs, organizations, and coordinating efforts among fellow staff members.
- Oversaw logistical arrangements, providing technical support for building systems such as Echo360 and audiovisual equipment.
- Provided live mentorship and guidance leading to successful tech workshops and increased student engagement.

### 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.

## TECHNICAL SKILLS AND INTERESTS

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

**Design and IDE:** Git, GitHub, Gitlab, VS Code (VSC), VIM

**Databases:** MongoDB, AWS DynamoDB, Firebase Firestore, SQL

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

**Interests:** Powerlifting, Basketball