

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

Weather Dashboard

July 2025 – Aug 2025

- Developed a responsive Flask web application with PostgreSQL database integration for personalized weather forecasting and location management
- Implemented RESTful API endpoints connecting to WeatherAPI for real-time weather data and 7-day forecasts with hourly breakdowns
- Deployed scalable web application with modular CSS architecture, custom notification system, and optimized database queries.

Statistics Analyzer

Jun 2025 – Aug 2025

- Launched a MERN-based web platform that serves 300+ users with live NBA player stats, leaderboards, and interactive charts.
- Built customizable statistical dashboards with interactive charting capabilities and real-time analytical tools for user-generated statistical formulas.
- Integrated a machine learning analytics pipeline with custom-trained predictive models delivering real-time probability assessments for individual player statistical benchmarks.

Process Manager

March 2024 – May 2024

- Developed 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.

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

Interests: Powerlifting, Basketball