

Edward Chen

718-213-9142 | nyc.chen.edward@gmail.com | [LinkedIn](#) | [Portfolio](#)

EDUCATION

Stony Brook University

Stony Brook, NY

Bachelor of Science in Computer Science/Applied Mathematics and Statistics

Aug. 2021 – May 2025

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

PROJECTS

Weather Viewer | *Python, Flask, JavaScript, PostgreSQL*

July 2025 – Aug. 2025

- Developed responsive Flask web application with PostgreSQL database integration, serving personalized weather forecasting and location management for 100+ test users
- Integrated WeatherAPI via RESTful endpoints for real-time data retrieval, 7-day forecasts, and hourly weather breakdowns
- Deployed a scalable web application with an interactive dashboard layout for weather visualization

Statistics Analyzer | *React, Node.js, LightGBM, MongoDB*

June 2025 – Aug. 2025

- Launched a MERN-based web platform featuring 400+ NBA player statistics, interactive leaderboards, and dynamic data visualization components
- Built comprehensive data visualization features to support user-defined statistical formulas and metrics
- Integrated a machine learning pipeline with a custom predictive model for forecasting player probability assessments
- Enabled interactive player comparisons and drill-down capabilities, enhancing user engagement and insight discovery

Process Manager | *React, Node.js, Express.js, MongoDB*

March 2024 – May 2024

- Built a full-stack web app managing 500+ user accounts with real-time resources, rooms, procedures, and rosters
- Designed a modular architecture adaptable to multiple business sectors, demonstrating scalability and flexibility in software design principles
- Implemented a secure, indexed MongoDB with role-based access and encryption for fast, protected queries
- Automated operational workflows reducing manual processing time by 70% and improving overall system efficiency through query optimizations

EXPERIENCE

IT Operations Specialist

Aug. 2022 – May 2024

Stony Brook Campus Residences

Stony Brook, NY

- Orchestrated events for 200+ students in collaboration with computer science clubs and organizations
- Coordinated logistical arrangements and provided technical support for Echo360 and audiovisual systems
- Ensured reliable performance of classroom technology and computers for daily use and events
- Mentored students during tech workshops, boosting engagement and learning outcomes.

Teaching Assistant

Aug. 2023 – Dec. 2023

Stony Brook University

Stony Brook, NY

- Instructed laboratory sessions for 30+ students covering Java programming fundamentals, recursion, and polymorphism concepts
- Managed Piazza Q&A platform responding to 100+ student inquiries, providing comprehensive course support and assistance
- Facilitated exam administration and grading procedures in collaboration with the professor to maintain academic standards

TECHNICAL SKILLS

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

Frameworks/Libraries: React, Node.js, Express.js, Flask, FastAPI, Material-UI

Developer Tools: Git, GitHub, Gitlab, VS Code, VIM, Docker

Databases: MongoDB, DynamoDB, Firebase, PostgreSQL