# Edward Chen

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## 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

## 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

## PROJECTS

**Weather Viewer** | *Python, Flask, JavaScript, PostgreSQL*   July 2025 – Aug. 2025

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

**Statistics Analyzer** | *React, Node.js, LightGBM, MongoDB*   June 2025 – Aug. 2025

- Launched a MERN-based web platform featuring 400+ NBA player stats, leaderboards, and interactive charts
- 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 via RESTful APIs
- Designed a modular architecture adaptable to multiple sectors to automate operational workflows
- Implemented a secure, indexed MongoDB with role-based access and encryption for fast, protected queries

## 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