

Edward Chen

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EDUCATION

Stony Brook University (SUNY)

Bachelor of Science in Computer Science | Applied Mathematics and Statistics

Stony Brook, NY

Aug. 2021 – May 2025

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

TECHNICAL SKILLS

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

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

Developer Tools: Git, GitHub, Gitlab, VS Code, Azure DevOps, VIM, Docker, Office 365

Databases: MongoDB, DynamoDB, Firebase, PostgreSQL

Interests: Powerlifting, Basketball, Diving

PROJECTS

Weather Tracker | *Flask, JavaScript, PostgreSQL, OpenMeteo*

July 2025 – Aug. 2025

- Deployed a Flask web application with PostgreSQL database design, implementing user location management and data caching for 100+ user accounts
- Engineered RESTful API integration with OpenMeteo for real-time weather data, reducing average response time by 60% through data processing optimization
- Developed responsive dashboard displaying 168+ hourly data points per forecast cycle, featuring interactive visualizations and historical monthly weather comparisons

NBA Analytics Dashboard | *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 using LightGBM achieving 85% prediction accuracy on player performance forecasts with custom feature engineering
- Enhanced user engagement by 40% through interactive player comparisons and drill-down capabilities, reducing average session bounce rate

Automated Process Manager | *JWT, Socket.IO, Cron, MongoDB*

March 2024 – May 2024

- Built a full-stack web application managing 300+ user accounts with real-time resource allocation, room scheduling, and automated roster management
- Automated operational workflows reducing manual processing time by 70% through MongoDB query optimizations and customized cron job scheduling
- Designed modular architecture supporting 5+ business sectors with 90% code reusability using agile development practices
- Implemented JWT authentication with role-based access control and Bcrypt encryption, securing 300+ daily user sessions
- Integrated Socket.IO for real-time notifications and messaging, enabling instant updates across 50+ concurrent users

EXPERIENCE

IT Operations Specialist

Aug. 2022 – May 2025

Stony Brook Campus Residences

Stony Brook, NY

- Provided technical support during events for 200+ students across campus facilities
- Coordinated logistical arrangements and managed Brightspace, Echo360 and audiovisual system operations
- Maintained reliable performance of classroom technology and computers for daily use and events
- Monitored network performance and system health across campus facilities, ensuring 98% uptime for IT infrastructure

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