

# BRANDON WONG

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## Education

### Stony Brook University

Sep. 2022 – May 2026

Bachelor of Science in Computer Science; GPA: 3.32

Stony Brook, NY

- Relevant Coursework: Data Structures, Analysis of Algorithms, Software Development, Systems Programming

## Experience

### Integrating Population Health Informatics

September 2023 – January 2024

Undergraduate Researcher

Stony Brook, NY

- Integrated 42 diverse data sources, using sophisticated analytic and data visualization techniques to build a picture of the population and specific health concerns.
- Began to develop meaningful solutions and design strategies to combat regional health issues in 127 districts.
- Presented findings and insights from data analysis to faculty and team members, contributing to strategy development in public health initiatives.

### Target

June 2022 – August 2024

Starbucks Team Member

College Point, NY

- Demonstrated exceptional adaptability and problem-solving skills in customer service, quickly addressing and resolving diverse challenges.
- Showcased strong teamwork and collaborative abilities, effectively communicating and adapting within a team.

## Projects

### Stock Tracker | React, Node.js, Express.js, MongoDB, Mongoose, Git

July 2024

- Developed a full-stack stock tracking application using React, Node.js, and MongoDB for real-time stock data, portfolio management, and trade history.
- Integrated Yahoo Finance and Alpha Vantage API to pull live data, providing accurate stock price updates and enhanced search functionality.
- Implemented MVC architecture and REST API operations to streamline communication between the client, server, and database.

### Todo App | JWT, React, Node.js, Express.js, PostgreSQL, Bootstrap, Git

August 2024

- Built a fullstack Todo application featuring JWT-based authentication, allowing users to register, log in, and manage their tasks with full CRUD functionality.
- Implemented a backend using Node.js, Express.js, and PostgreSQL, with JWT providing secure authentication and authorization for all user operations.
- Optimized the application by using RESTful API principles to efficiently handle client-server communication, enabling a seamless and secure user experience.

### Dynamic Memory Allocator | C, Linux, Git

May 2024

- Implemented from scratch, a dynamic memory allocator with malloc, free, and memalign functions.
- Used design strategies such as first-fit policy, immediate coalescing, and block splitting in C.

## Technical Skills

**Languages:** Java, Python, JavaScript, Ruby, HTML/CSS, SQL (Postgres), C

**Technologies/Frameworks:** React, Node.js, Express.js, MongoDB, JWT

**Developer Tools:** Git, VS Code, Postman API, Linux, Agile

## Leadership / Extracurricular

### ChinaBlue

Spring 2024 – Present

Fundraising Head

Stony Brook University

- Successfully managed a budget exceeding \$1000, orchestrating fundraising initiatives that generated over 50% in profit.
- Led bi-weekly meetings, focusing on collaborative planning and execution of fundraising events.