BRANDON WONG

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Education

Stony Brook University · **Sept. 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

WebGen · **Aug. 2024 – Present**
Undergraduate Researcher | Javascript, HTML, CSS · *Stony Brook, NY*
- Collaborated with a team of 4 to aggregate health data from 4 APIs and visualize it using JavaScript and Plotly.js, enhancing data accessibility in the health sector through a deployed website.
- Designed and implemented interactive visualizations for cancer genomics data, offering 8 distinct charts, graphs, and heatmaps for comprehensive analysis.
- Engineered a tool to retrieve up to 10 current medical research articles from Google Scholar using SerpAPI, streamlining the research process.

Stony Brook University · **Sept. 2023 – Jan. 2024**
Undergraduate Researcher | R, Javascript, HTML · *Stony Brook, NY*
- Integrated 42 diverse data sources, using Javascript and R to illuminate key health trends across various populations and concerns.
- Initiated the development of impactful solutions to address regional health challenges across 127 districts.
- Presented data-driven insights and findings to faculty and team members, contributing to the strategic development of public health initiatives.

Target · **June 2022 – Aug. 2024**
Starbucks Team Member · *College Point, NY*
- Demonstrated exceptional adaptability, 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 fetch live stock data, providing accurate price updates and enhanced search functionality.
- Architected the application using MVC design principles and implemented REST API operations to optimize communication between the client, server, and database.

Todo App | *JWT, React, Node.js, Express.js, PostgreSQL, Bootstrap, Git* · **Aug. 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.

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.

Technical Skills

Languages: Java, Python, JavaScript, Ruby, SQL (Postgres), C
Technologies/Frameworks: React, Node.js, Express.js, MongoDB, JWT
Developer Tools: Git, VS Code, Postman API, Linux, Agile