

# BRANDON WONG

New York, NY

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## Education

### Stony Brook University

Aug 2022 – May 2026

*Bachelor of Science in Computer Science*

*Stony Brook, NY*

- **Relevant Courses:** Fundamentals of Software Development TA, Data Structures & Algorithms, Software Engineering, Computer Networks, Operating Systems, Web Security, Scripting Languages

## Work Experience

### Amazon Web Services (AWS)

May 2025 – Aug 2025

*Software Development Engineer Intern*

*Seattle, WA*

- Developed serverless architecture integrating with an existing metadata tool to fetch, process, and analyze permission sets across **170+** AWS organizations using **5 AWS Lambda** functions implementing similarity algorithms to compare datasets to identify duplicates, and security vulnerabilities while storing recommendations in **Amazon S3**.
- Leveraged parallel Step Function workflows to coordinate **2 Lambda** functions to process data concurrently and optimized workflows by filtering out **96%** of unnecessary comparisons, reducing permission set analysis processing time by **4 times** and conserving memory, allowing the processing functions to stay within Lambda limits.
- Implemented **AWS EventBridge** for scheduled permission set analysis, reducing permission set and permission assignment technical debt by over **50%**, and enhancing security by analyzing permission drifts using **Python**.

### Google

Feb 2025 – May 2025

*Basta G-SWEP Fellow*

*Remote*

- Engaged in 10 weeks of pair programming and **mentorship** with a Google Software Engineer to strengthen problem-solving abilities, and enhance behavior and technical interview skills.

### Stony Brook University

Aug 2023 – May 2025

*Undergraduate Researcher*

*Stony Brook, NY*

- Programmed and deployed a **JavaScript**-based web application aggregating health data from **4 APIs**, visualized through **8** dynamic charts and heatmaps using Plotly.js, and streamlined medical research workflows by creating a tool to fetch **10+** relevant articles from Google Scholar API.
- Identified key health trends by analyzing **40+** datasets with **R** and **JavaScript**, addressing challenges across **127** districts, and presented actionable insights and data visualizations to influence the direction of public health strategies.

## Projects

### Smart Parking System (P4SBU) | GitHub

React | Node.js | PostgreSQL

- Collaborated with peers to deploy a scalable web app enhancing parking experiences of **20,000+** Stony Brook faculty, students, and visitors, incorporating **MapBox API** for an interactive campus map with wayfinding algorithm-based parking suggestions, a user-profile-driven reservation system, and an admin dashboard for oversight.

### Phreddit | GitHub

React | Node.js | MongoDB

- Engineered a full-stack platform supporting **1000+** users using **CRUD** functionality to facilitate core features, including community creation, threaded commenting, voting, context search, user profiles, and a reputation system, post creation, and engage in threaded discussions, enhancing user engagement across the platform.

## Leadership / Extracurricular

### ChinaBlue

Aug 2023 – Present

*Treasurer (2025–2026), Fundraising Head (2024–2025)*

*Stony Brook University*

- Managed a **\$10,000+** budget and led weekly cabinet meetings to coordinate and execute cultural events.
- Led bi-weekly meetings to plan and spearhead 4 fundraising initiatives a semester, achieving a **210%** profit margin.

## Technical Skills

**Languages:** Java, Python, HTML5, CSS, JavaScript, TypeScript, C

**Developer Tools:** AWS, Postman, Git, Agile, CI/CD

**Libraries/Frameworks:** NodeJS, ReactJS, PostgreSQL, MongoDB