

AKIB YEAHIA

Queens, NY

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Education

Stony Brook University

Bachelor of Science in Computer Science

Stony Brook, NY

Aug. 2022 – Expected May 2026

GPA: 3.53 / 4.0

Relevant Coursework: Analysis of Algorithms, Computer Architecture, Computer Networks, Data Structures, Discrete Mathematics, Software Engineering, Survey of Probability and Statistics, System Fundamentals I & II, Web Security

Awards: Fall 2024 & Spring 2025 Dean's List

Technical Skills

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

Technologies & Frameworks: React, Node.js, Express.js, Flask, MongoDB, SQL

Developer Tools & Platforms: Git, VS Code, Linux, Postman API, Agile Development, MATLAB

Experience

Undergraduate Researcher

January 2025 – May 2025

WebGen

Stony Brook, NY

- Led the development of a responsive web application that fetches and processes large-scale biomedical datasets from the OpenFDA API, enabling interactive visualizations in under 10 seconds for research and analysis.
- Implemented a fully serverless frontend using HTML, JavaScript, and CSS to simplify deployment and eliminate backend maintenance, leveraging Plotly.js for dynamic, user-driven data visualizations.
- Optimized API request handling and data rendering to improve performance and scalability, cutting load time and supporting real-time updates for datasets containing 1M+ records.

Software Team Member

October 2023 – May 2024

Solar Racing Team at Stony Brook University

Stony Brook, NY

- Supported the Solar Racing Team by developing two applications that streamlined user accessibility and improved project management for 50+ members.
- Established a 99% up-time bot using Python and MongoDB, enabling E-Board members to announce shop hours, post club rules, and track time spent in shop in an easily accessible way via Discord.
- Created a Python-based attendance tracking system utilizing a school ID scanner and Google Sheets integration via gspread, reducing sign-in time by over 30 seconds compared to former methods involving QR code scanning.

Projects

Live NBA Tracker | *Python, Discord API*

January 2025

- Developed a Discord bot utilizing discord.py and nba-api to deliver real-time NBA game updates including scores and scheduled games to several servers concurrently.
- Designed the bot to allow server-specific configurations using JSON to store preferences such as the command prefix or a specific text channel for updates, enabling a personalized and persistent user experience.
- Implemented error handling to verify user commands, handle API limitations, and ensure smooth interaction with the Discord API under high usage.

Fake Reddit | *CSS, JavaScript, React, Node, Express, Mongoose, MongoDB*

September 2024

- Developed a full-stack web application replicating Reddit, enabling users to create and manage communities, posts, comments, and accounts with persistent MongoDB storage.
- Built a responsive front-end with React and a RESTful back-end with Node.js and Express.js, ensuring a proper client-server communication.
- Designed Mongoose schemas to define data relationships and enforce validation for robust database operations.

DoodleDash | *CSS, React, Python, MongoDB, Chakra UI, Express, Flask*

February 2024

- Collaborated in a 3-member team in a 48-hour SBUHacks hackathon at Stony Brook University, competing against over 90 teams.
- Developed a web app enabling users to draw, submit, and display images stored in URI-encoded base64 format within a MongoDB database.
- Built the front-end using React and Chakra UI, while implementing backend APIs with Flask and Express to handle MongoDB integration and routing.