Thomas Mbrice

https://github.com/ThomasMbrice

Education

Stony Brook University, NY

Bachelor of Science in Computer Science

Scholarships & Awards: Dean's List: Fall 2022, 2023 Presidential Merit Scholarship

Relevant Coursework: Data Structures, Advanced Algorithms, System Design, Linear Algebra, Probability & Statistics,

Software Development

Skills & Certificates

Certificates: Stanford Machine Learning Specialization, IMB: Python for Data Science, AI & Development

Languages: Java, JavaScript/TypeScript, HTML/CSS, C, Python, Bash

Frameworks & Tools: Node.js, Tailwind CSS, React, Git, Jupyter, Appwrite, React, API/JSON, Next.js Concepts: Machine Learning (Image Recognition), Front-End, Back-End, Cloud Computing, Web-Scrapping

Experience

Commonwealth Coop Bank - SWE Intern

Summer 2023

Expected Graduation: May 2026

- o Collaborated with the CTO to develop a more scalable database system, improving data management and performance
- o Automated error codes for malfunctioning hardware to help isolate problems for for efficient use of the IT team
- Developed comprehensive technical documentation for 42 Python Scripts with improvements and scripting processes, ensuring clarity and ease of use for future reference

Stony Brook - Teaching Assistant

Fall 2024

- Assisted in teaching the Data Structures course, focusing on key computer science concepts such as Data Structures and Big O notation in Java
- Provided one-on-one support and tutoring to students, helping them understand complex topics and improve their programming skills for as many as 15 students per week

Projects

CodeUp - Next.js 15, Django, React, TypeScript

- Collaborated to create a dynamic platform designed specifically for beginner and first-year computer science students to solidify their coding skills and gain practical experience
- Designed and integrated a browser-based code editor for practical coding exercises.
- Created and provided a variety of test questions to enhance coding skills.
- o Successfully onboarded 100 users, demonstrating the platform's effectiveness and appeal.

Spark - Next.is 15. MongoDB. React

- o Developed a streamlined AI developer tool with a team member, using Next.js v15, integrated with MongoDB for data management
- Designed and implemented a React-based, user-friendly, front-end interface with DaisyUI, facilitating easy AI model deployment via npm packaging

Investofolio - Gemini API, Python, React, TypeScript

- Collaborated with a team member to develop a React-based website focused on educating users about stocks, featuring interactive graphs and animations
- Utilized TypeScript for front-end development and implemented web scraping functionalities with Python to enhance data collection and analysis capabilities

Finance Dashboard Clone - *TypeScript, Appwrite, APIs*

- Developed a consumer banking platform using TypeScript, leveraging the Schaden component library for UI design
- o Integrated an Appwrite backend and utilized Plaid and Dwolla APIs for realistic money transfer functionalities
- Created and maintained technical documentation for architecture, API integrations, and platform functionalities to support development and future enhancements

Campus Involvement

Peer Mentor - Stony Brook University

- o Served as a peer mentor, guiding and overseeing the development of **3 freshman students**
- o Enriched mentees' experience through weekly networking opportunities and active participation in campus events
- Fostered a supportive environment to enhance mentees' academic and personal growth during their transition to university life

CEAS Student Intern - Stony Brook University

- Managed daily operations of the CEAS Undergraduate Student Office, ensuring adherence to policies and deadlines, streamlined student check-in, up to 25 students weekly
- o Led 2 CEAS USO outreach initiatives and coordinated college-wide events to cultivate a dynamic campus community