Thomas Mbrice

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EDUCATION

Stony Brook University, NY   **Stony Brook, New York**
Bachelor of Science in Computer Science   *Expected May, 2026*
Relevant Coursework: Software Development, Advanced Algorithms, System Design, Operating Systems,
Honors/Scholarships/Awards: Dean's List: Fall 2022, Fall 2023 Presidential Merit Scholarship 2022

TECHNICAL SKILLS

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

EXPERIENCE

Commonwealth Cooperative Bank   **Boston, MA**
Technical Intern   *May 2023 – Aug 2024*
- Collaborated with the CTO to develop a internal database system, improving data management and performance
- Developed comprehensive technical documentation for 42 Python Scripts with improvements and scripting processes, ensuring clarity and ease of use for future reference

Stony Brook University, Vertically Integrated Project   **Stony Brook, NY**
Research Assistant   *August 2024 – Present*
- Worked a team of 9 in project life cycle of a simulation to test edge-case ethical dilemmas within autonomous vehicles
- Incorporated OpenStreetMap data, modular environmental elements, dynamic road network construction, and a spatial graph visualizer, boosting visual fidelity by 85%

Stony Brook University, College Of Engineering and Applied Science   **Stony Brook, NY**
Teaching Assistant   *May 2024 – Present*
- Assisted in teaching the System Fundamentals course, focusing on key system level concepts such as C language, bit manipulation, memory allocation and the Assembly language
- Provided individual tutoring to no less than 15 students weekly and held in person recitation for more than 30 students to review class material and reinforce understanding of core topics

PROJECTS

CodeUp, *Next.js 15, Django, React, TypeScript*   **Summer, 2024**
- Designed and integrated a browser-based code editor for practical coding exercises along with custom made test questions to enhance coding skills
- Successfully onboarded 100 users, demonstrating the platform's effectiveness and appeal

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Spark, *Next.js 15, React*
- Developed a streamlined AI developer tool with a team member, using Next.js v15
- 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*   **Summer, 2024**
- Collaborated with a team member to develop a React-based website focused on educating users about stocks, featuring interactive graphs and animations to introduce financial analytics to beginners
- Utilized TypeScript for front-end development and implemented web scraping functionalities with Python to enhance data collection and analysis capabilities

Leadership Experience

Peer Mentor, *Stony Brook University*   **Fall, 2024**
- Volunteered as a peer mentor, guiding and overseeing the academic and social development of 3 students

CEAS Student Intern, *Stony Brook University*   **Spring, 2024**
- Led 2 CEAS USO outreach initiatives and coordinated college-wide events to cultivate a dynamic campus community as well as managing the daily operations of the CEAS undergraduate office