Jyotir McEwan

jyotirtyrese@usf.edu | (813) 5399825 | linkedin.com/in/devopsjyotir/ | mcewnanamoah.com

EDUCATION

University of South Florida
B.A in Economics   *December 2023*

Leadership & Involvement: African Students Association, National Society of Black Engineers, University of South Florida Success Center; Peer Tutor

WORK EXPERIENCE

Sciquel, Harvard Innovation Labs | Boston, MA
Full Stack Developer Intern   *May 2023-August 2023*
- Spearheaded the design and implementation of an interactive React-based visualization page for Sciquel, translating complex PISA 2018 results into a user-friendly interface, leading to a 30% increase in stakeholder engagement and understanding of scientific literacy metrics across nations.
- Collaborated closely with cross-functional engineering teams, playing a pivotal role in broadening access to scientific content; directly contributing to a 50% surge in users accessing and benefiting from scientific literacy insights.

USF Academic Success Center | Tampa, FL
Peer Tutor   *Jan 2023 – March 2023*
- Taught students programming fundamentals, problem-solving, and algorithm design using a personalized, project-based approach with Scratch, Python, and HTML/CSS.
- Led a team of two tutors to run intensive, 12-hour virtual coding boot camps, guiding students to develop and present their own personalized projects.

General Assembly | Remote, NY
Software Engineer   *Sept 2022 - Dec 2022*
- Orchestrated data integration using Python, AWS, and Apache Spark, achieving seamless data amalgamation and significantly reducing system lags and errors.
- Actively steered two critical hackathons, employing Git Flow practices, catalyzing team synchronization and boosting overall productivity by a noteworthy 20%.
- Established a robust security framework, deploying JWT and OAuth protocols, effectively safeguarding the confidentiality and integrity of user data in a dynamic digital environment.

PROJECTS

Sorting Algorithms Visualizer | React.
- Developed an educational web application to visually demonstrate popular sorting algorithms. Created interactive visualizations that enable users to comprehend sorting concepts effectively.
- Implemented features such as adjustable animation speeds, dynamic bar resizing, and randomized data, enhancing the user experience and facilitating a comprehensive understanding of sorting techniques.

Unwrapped
- Engineered a dynamic React application integrated with the Spotify API, enabling users to authenticate and seamlessly log in using their Spotify accounts.
- Developed a comprehensive insights dashboard allowing users to analyze their most-played songs and artists across customizable timeframes: last month, 12 months, all-time, etc.
- Implemented an advanced sorting mechanism, empowering users to organize their playlists based on specific musical features such as danceability, rhythm, and more.

SKILLS & TECHNICAL TOOLS

Software Skills: Python, HTML, React, CSS, PostgreSQL, Express, Flask, Node.js
Software Tools: Heroku, Postman, Git & GitHub, Git Bash, MongoDB, Figma