

Jyotir McEwan-Anamoah

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EDUCATION

University of South Florida, College of Engineering

B.S in Computer Science | GPA: 3.6

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-Present

- Developed from scratch an open-source web application that helps architects and engineers visualize the surrounding environment of their buildings using Python and Dash.
- Built dynamic features and 15+ different types of interactive data visualizations using Plotly.
- Working with team of 7 engineers to design and launch interactive journey map and software application for use by students to help them identify career pathways based on major and interests.
- Utilized the PERN stack with full create, read, update, delete (CRUD) operations hitting all RESTful API calls.

USF Academic Success Center | Tampa, FL

Peer Tutor

January 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 Intern

September 2022 - December 2022

- Developed API-based applications/scripts to enhance Tableau operations, ensuring smooth data flow and enabling efficient visualization and analysis.
- Worked on data ingestion and curation by utilizing Python, AWS, and Apache Spark for seamless integration of data from APIs and databases.
- Participated in 2 high-paced hackathons, implementing Git Flow, to facilitate seamless collaboration and improve productivity by at least 20%.
- Ensured the privacy and protection of sensitive user data by implementing secure authentication methods, JWT and OAuth.

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.

Blackjack

- Developed a fully functional Blackjack game implementing key rules and functionalities, such as an unlimited deck size, Ace counting as 11 or 1, and equal probability card drawing from a predefined list.
- Implemented advanced scoring logic, including checking for blackjack (a hand with only 2 cards: Ace + 10) and dynamically adjusting Ace values to optimize player score while avoiding exceeding 21.

SKILLS & TECHNICAL TOOLS

Software Skills: Python, HTML, React, CSS, PostgreSQL, Express, Flask, Node.js

Software Tools: Heroku, Postman, Git & GitHub, Git Bash, MongoDB, Figma