

AARON ESSIEN

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EDUCATION

University at Buffalo, The State University of New York

Bachelor of Arts in Computer Science

Minor in Psychology

Expected Graduation: May 2025

ADDITIONAL SKILLS

Programming Languages/Development: Python, Java, Scala, C/C++, SQL, HTML, CSS, JavaScript

Frameworks/Libraries: Docker, ReactJS, JUnit, Pytest, Playwright, Selenium

Tools/Platforms: Git, Postman, REST API, RESTful API, Jira, Chrome Dev Tools, AWS Cloud, Confluence, Tesseract, MongoDB

Relevant Coursework: Introduction to Object Oriented-Programming, Data Structures & Algorithms, Systems Programming, Computer Organization, Introduction to Artificial Intelligence, Data Models and Query Language

WORK EXPERIENCE

Software Development Engineer in Test Intern | SageSure Insurance

June 2024 - August 2024

- Performed comprehensive end-to-end testing strategies, including RESTful API testing using Postman, front-end UI testing utilizing Pytest, Playwright, and Selenium, wrote functional testing and regression tests.
- Oversaw SDLC management using Jira, for bug management and tracking.
- Collaborated with agile teams to implement end-to-end testing for a newly developed application, establishing pipelines for developers to verify the quality of their code during preview, staging, and production environments.
- Utilized Git for version control, managing code repositories and facilitating continuous integration and deployment by integrating new code into CI/CD pipelines.
- Utilized data structures and object oriented programming principles to improve runtime efficiency of tests by **15%**.
- Pioneered and authored thorough documentation of a new utilization of the Playwright library to be implemented on all future software products the company plans to release in the future.

TECHNICAL PROJECTS

NotesReAder | Artificial Intelligence (AI) Note to Quiz Converter

September 2024 - Present

- Collaborated with a cross-functional team to build an AI-powered tool that converts lecture slides into interactive study materials, enhancing learning efficiency.
- Utilized Tesseract OCR for robust text extraction from PDFs and PowerPoint, and integrated Gemini for summarization and question generation.
- Developed a front-end for users to upload slides and view generated summaries in real-time, utilized MongoDB for user data.
- Created adaptive and tailored quizzes based on user interactions, which in turn dynamically adapts to the user's progress
- Sought to design the system with future growth in mind, ensuring that all features we made were also able to seamlessly integrate with any new educational tools and features .

Playlist Transfer | Spotify to Apple Music Converter

- Utilized Spotipy API and Apple-Music API services to transfer songs and playlists from one platform to another.
- Integrated Spotipy (Spotify API wrapper) for seamless playlist extraction and metadata retrieval.
- Utilized Apple Music API to add and organize playlists on Apple Music based on Spotify data.
- Implemented data parsing to match song metadata (title, artist, album) across platforms, ensuring accurate transfers.
- Designed and implemented a script to streamline playlist and song transfers between Spotify and Apple Music platforms.

LEADERSHIP

National Society of Black Engineers (NSBE) | Senator

May 2024 - Present

Louis Stokes Alliance for Minority Participation (LSAMP) | University at Buffalo

October 2023 - Present

Colorstack | Fellow

August 2023 - Present

Management Leadership for Tomorrow (MLT) | Fellow

January 2023 - Present

University at Buffalo Men's Track and Field | Sprinter

August 2021 - August 2024