

Aaron Essien

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EDUCATION

University at Buffalo

Bachelor of Arts in Computer Science, Minor in Psychology

Buffalo, NY

Aug. 2021 – May 2025

EXPERIENCE

Software Development Engineer in Test Intern

June 2024 – August 2024

Sagesure Insurance

Jersey City, NJ

- Implemented comprehensive end-to-end testing strategies to ensure application stability and performance, leveraging tools such as **Postman** for RESTful API testing and **Pytest**, **Playwright**, and **Selenium** for front-end UI testing.
- Integrated **automated testing frameworks** directly into the **CI/CD pipelines** to run **regression**, **functional**, and **end-to-end tests**, ensuring code quality at every deployment stage.
- Designed, executed, and maintained **regression test suites**, ensuring application stability across multiple releases by identifying and addressing defects introduced during development.
- Managed the **Software Development Life Cycle (SDLC)** using **Jira**, efficiently tracking bugs, creating user stories, and reporting testing progress to stakeholders.
- Collaborated with cross-functional teams to implement robust automated testing frameworks (**Pytest**, **Selenium**, **Playwright**) within CI/CD pipelines, ensuring consistent code quality and mitigating production bugs.
- Participated actively in an **Agile environment**, contributing to sprint planning, backlog refinement, daily stand-ups, and retrospectives, fostering team alignment and delivering incremental software improvements.
- Authored thorough documentation of a new utilization of the Playwright library to be implemented on all software products the company plans to release in the future.

PROJECTS

NotesReader | *Python, Flask, React, MongoDB, Docker*

September 2024 – December 2024

- Collaborated with a cross-functional team to build an AI-powered tool that converts lecture slides into interactive study materials, enhancing learning efficiency.
- Utilized **Pytesseract** for robust text extraction from PDFs and PowerPoint, and integrated **Google Gemini** for summarization and question generation.
- Created adaptive and tailored quizzes based on user interactions, which in turn dynamically adapts to the user's progress.

Playlist Transfer | *Spotipy API, Python, RESTful API*

June 2024 – July 2024

- 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.

TECHNICAL SKILLS

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

Frameworks: ReactJS, JUnit, Pytest, Flask

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

Libraries: pandas, NumPy, Pytest, Playwright, Selenium

LEADERSHIP

National Society of Black Engineers (NSBE) — Senator I

June 2024 – Present

Louis Stokes Alliance for Minority Participation (LSAMP) — Fellow

September 2023 – Present

Colorstack — Fellow

June 2023 – Present

Management Leadership for Tomorrow (MLT) — Fellow

January 2023 – Present

University at Buffalo Track and Field — Sprinter

August 2021 – May 2024