

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/UX** testing.
- Integrated **automated testing frameworks** directly into the **CI/CD pipelines** to run **regression**, **functional**, and **end-to-end tests**, ensuring code quality at the deployment stage.
- 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 automated testing frameworks 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 new processes within **Confluence** to ensure seamless onboarding for current and future employees.
- Analyzed **web performance metrics** using **Playwright** to identify optimization opportunities and improve user experience.
- Ensured seamless deployment of **web services** and **full-stack cloud** applications while maintaining **cross-browser compatibility**, delivering consistent and user-friendly front-end experiences.

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) to ensure accurate transfers.

TECHNICAL SKILLS

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

Frameworks: ReactJS, JUnit, Pytest, Flask, Angular

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