Hassan Sesay

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EDUCATION

The Pennsylvania State University- Harrisburg | Middletown, PA

B.S. in Computer Science | **GPA:** 3.0/4.0   **May 2025**

Relevant Courses: Computer Organization, Data Structures, Foundations of Programming, Algorithms & Analysis, Statistics, Object Oriented Programming, Formal Languages, Netcentric Programming

TECHNICAL SKILLS

Programming Languages: Java (Advanced), Python (Intermediate), C (Beginner), C# (Intermediate), C++ (Advanced), Javascript (Advanced), MySQL (Intermediate), Oracle SQL (Intermediate)

Operating Systems: Windows XP/Vista/7/8/10, Linux

Programming Tools: MagicDraw, Microsoft Office, Figma, JAMA Software, Jira, Pytorch, SBE Vision, Git, Visual Studio, TensorFlow, Power BI, JetBrains applications, Javascript frameworks, HTML, CSS, Matlab

Other: Data science, REST APIs, Statistics, mobile/web development, UI/UX Design, machine learning, technical writing, cross-functional, adaptability, data analysis, strong teamwork and independence, communication, time management

RELEVANT EXPERIENCE

Functional Safety Systems Engineer Intern | Ford | Dearborn, MI   **June 2023 - August 2023**

- Reviewed and update safety and hazard documents of an upcoming car feature release. Worked in a team and held weekly meetings to review the safety and hazards weekly for car feature.
- Successfully passed functional safety and hazard requirements for car feature after various reviews and updates.
- Implemented Model Based Systems-Engineering (MBSE), and other tools including MagicDraw, JAMA Software, Jira, and SBE Vision

PROJECT

Pocket Monster and TV Show Infor Web Applications using API | Class Project   **February 2023**

- Created a fully functional web application with a dynamic **Javascript-based** front-end, an AJAX-based communication with a **RESTful server-side API**, that displays an online *Pokemon* encyclopedia about pocket monsters. When a specific monster profile is clicked, specific information about the pocket monster is displayed.
- Created a fully functional web application with a dynamic **Javascript-based front-end**, an AJAX-based communication with a television show RESTful server-side API, where the user can search for a TV show or keyword in a show that displays episodes from the show or closest show from a keyword search. When an episode is clicked, the application takes you to information about the episode.

Movies and Award Queries using SQL | Personal Project   **December 2022**

- Created a **Java-based program** that queries a database using **MySQL** of inputted movies and awards using an **SQL** script.

LEADERSHIP EXPERIENCE

Executive Officer of Nationl Society of Black Engineers | Penn State Harrisburg   **Aug 2022 - Present**

- Assist in managing and leading our universities members of Nationl Society of Black Engineers to empower African-Americans in tech and engineering with professional and career development.
- Partnered with other branches, univeristies and orginazition to prepare members for the national convention and career fair.