Jibril Afaa

jibrilBA04@gmail.com | (412) 478-9202 | LinkedIn | GitHub | State College, PA

EDUCATION

The Pennsylvania State University — University Park, PA
Bachelor of Science, Computer Science

PROFESSIONAL EXPERIENCE

Research Assistant — Remote
Penn State University — Jan 2025 – Present
- Designing **machine learning models** (decision trees, k-nearest neighbor), with high accuracy using **Python** and the **Scikit-learn** library.
- Applying **NLP** techniques to process textual data entries and creating insightful visualizations to improve data insights by using **Pandas**, **Numpy**, and **Seaborn**.
- Building and enhancing a **React Native** frontend to present machine learning results, improving accessibility and user experience.

Web Developer Intern — Remote
Alli Marketplace — Jan 2025 – Present
- Engineering a robust full-stack e-commerce application leveraging **ReactJS**, **TailwindCSS**, **Node.js**, and **Express.js** for seamless functionality.
- Employing **Firebase** for backend support, ensuring secure user sign-ups, logins, and session management, increasing data security and reliability.
- Enhancing the shopping experience by designing dynamic product catalogs with **Firebase Firestore**, enabling real-time updates and accurate inventory tracking.

Software Engineer Intern — Accra, Ghana
Axon Information Systems — May 2024 – Aug 2024
- Architected responsive user interfaces with **ReactJS** and **Tailwind CSS**, driving a **20%** improvement in usability and satisfaction.
- Designed and optimized REST APIs using **C#** and **.NET**, and integrated a **PostgreSQL** database, enhancing data retrieval speed by **35%.**
- Partnered with UI/UX designers to translate beautiful designs into functional components, accelerating development timelines by **40%**.

PROJECTS

African Urban Dictionary | *ASP.NET Core, ReactJS, Tailwind CSS,*
- Created an interactive and responsive web application for African slang terms using **ReactJS** and **Tailwind CSS**, increasing user engagement.
- Built a RESTful API in **ASP.NET Core** to handle **CRUD** operations, enabling smooth data management and interactions.
- Optimized backend performance by integrating a PostgreSQL database, reducing data retrieval latency.

Course Management System | *Java, Java Swing*
- Orchestrated the development of a **Java-based** desktop application with **Swing** for managing courses, offering users a seamless experience.
- Established a **MySQL** database for secure and reliable storage of student and course information.
- Streamlined **CRUD** functionality with **SQL queries**, improving efficiency and reliability in data handling.

PROFESSIONAL AND LEADERSHIP DEVELOPMENT

Resident Assistant | The Pennsylvania State University — Nov 2023 – Present
- Fostered a positive and inclusive environment by organizing community events, social activities, and group discussion.
- Served as a liaison between residents and university administration, conveying important information and updates.
- Conducted regular safety inspections, addressed potential hazards and educated residents on safety protocols.

Colorstack Member — Jan 2025 – Present

RELEVANT SKILLS

- **Programming Languages**: C#, Java, Python, HTML/CSS, JavaScript
- **Frameworks & Libraries**: ASP.NET Core, ReactJS, React Native, Tailwind CSS, SASS, NodeJS, ExpressJS
- **Tools & Technologies**: Git, Linux, PostgreSQL, MongoDB