

Jibril Afaa

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

EDUCATION

The Pennsylvania State University
Bachelor of Science, Computer Science

University Park, PA
Expected: May 2026

PROFESSIONAL EXPERIENCE

Software Engineer Intern

Axon Information Systems

Accra, Ghana

May 2024 – August 2024

- Developed fully responsive user interfaces with **ReactJS** and **Tailwind CSS**, increasing user satisfaction by **20%**.
- Engineered and optimized **REST APIs** with **Node.js**, **MongoDB**, **C#**, and **.NET**, improving data retrieval speed by **35%**.
- Collaborated with UI/UX designers to **integrate visual designs**, reducing design-to-development time by **40%**.

Accountant Intern

COSMOS Construction Ltd

Accra, Ghana

July 2022- August 2022

- Recorded financial transactions using accounting software
- Assisted in the preparation of financial statements.
- Analyzed and categorized expenses to improve reporting accuracy

PROJECTS

Custom Language Parser

Oct 2024 – Nov 2024

- Wrote a **lexer** and **parser** in **Python** for a language with arithmetic, boolean expressions and control flow
- Built a recursive descent parser to generate an **Abstract Syntax Tree (AST)** for key language constructs.
- Tokenized** and categorized language elements to ensure accurate **syntax analysis** across test cases.

African Urban Dictionary

Sept 2024 – Oct 2024

- Built a **web application** for African slang terms, shown by increased user engagement and satisfaction, by crafting an interactive and responsive interface using **ReactJS** and **Tailwind CSS**.
- Enabled effective data management, demonstrated by consistent **CRUD** functionality, by developing a **RESTful API** in **.NET** to facilitate seamless data transactions.
- Optimized database efficiency and reliability, evidenced by faster data retrieval and storage, by integrating a **PostgreSQL** database to support backend operations smoothly.

Course Management System

Nov 2023 – Dec 2023

- Designed and developed a **Java**-based desktop application with Swing for managing courses, providing users with a streamlined interface for efficient data interaction.
- Integrated a **MySQL** database to securely store and manage student and course information, ensuring data integrity and persistence across sessions.
- Implemented comprehensive **CRUD** functionality using **SQL queries**, optimizing data handling processes for quick and reliable access to application records.

PROFESSIONAL AND LEADERSHIP DEVELOPMENT

National Society of Black Engineers | Club Member

August 2024 – Present

Resident Assistant | The Pennsylvania State University

Nov 2023 – May 2024

- 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.

Global Young Leaders Conference

June 2021 – July 2021

- Modeled United Nations simulations, collaborating with international peers to address and achieve Sustainable Development Goals (SDGs).
- Earned a Leadership Certificate recognizing successful participation in high-level discussions and consensus-building on global challenges.
- Developed advanced skills in negotiation, public speaking, and international relations through hands-on leadership and diplomacy training.

RELEVANT SKILLS

- Programming Languages: C#, Java, Python, JavaScript
- Frameworks/Libraries: ASP.NET Core, ReactJS, NodeJS, ExpressJS, PostgreSQL