

# Jefferson Mubarak Adjetey

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GitHub: <https://github.com/Jeffersonadjetey> | Website: [www.jeffersonadjetey.com](http://www.jeffersonadjetey.com)

## EDUCATION

### Dartmouth College

Bachelor of Arts, Computer Science

Hanover, NH

Expected June 2024

**Relevant Coursework:** Data Structures & Algorithms, Software Design and Implementation, Object-Oriented Programming, Machine Learning, Cryptography, UI/UX Design, Human-Computer Interaction, Foundations of Applied Computer Science, Discrete Mathematics

**Awards:** Dartmouth TuckLab Scholar, Dartmouth Undergraduate Research Scholar

**Involvements:** National Society of Black Engineers, Dartmouth African Students Association

## TECHNICAL SKILLS

**Programming:** Python, Java, HTML, CSS, JavaScript, C, TypeScript, Bash

**Experience with:** React/React Native, Angular, Spring Boot, Git, UI/UX design, Django, Make, Arduino

## TECHNICAL EXPERIENCE

### Citigroup, Software Engineer Intern

June 2023 – Present

- Designing and developing a cloud insights file viewer tool using Angular to enhance the application deployment process for developers by providing a user-friendly interface for viewing, editing, and comparing helm chart files.
- Employing Java Springboot to develop the backend microservices of Citi's partnership feature, creating an all-digital merchant onboarding experience.
- Debugging existing software and rectifying defects to improve code performance and structure.

### HackNG (Startup), Software Engineer & UI/UX Designer

July 2022 – Present

- Designing and developing a cross-platform solution that leverages innovative technologies to deliver a comprehensive learning management system tailored to the specific requirements of Nigerian students and educators.
- Using Figma to design 10 user-friendly interfaces, conducting user studies and data analysis, and implementing React for the frontend along with Django for the backend, while employing Git for version control.

### Dartmouth College, Teaching Assistant, Introduction to Engineering: ENGS 21

March 2023 – May 2023

- Provided software support (C programming language) to students to facilitate the completion of their final project.
- Held weekly meetings to discuss course content and assisted the Professor in grading assignments.

### Thayer School of Engineering at Dartmouth, Undergraduate Research Assistant

January 2022 – June 2022

- Collaborated with a team of 3 to develop complex systems that employ game mechanics, AI algorithms (Python), physical user interfaces, and social dynamics to foster immersive and impactful learning experiences for children while tracking and quantifying their developmental progress.
- Led 20 user studies, ran 10 interviews, and performed qualitative data analytics on Figma prototypes of the developed systems.

## PROGRAMMING PROJECTS

- [Search Engine](#) (C, Bash): Implemented a tiny search engine, which includes a Crawler, Indexer, and Querier, for internal websites of the Dartmouth Computer Science Department.
- [drinkWatch](#) (C, Arduino): Implemented the software stack of a wearable breathalyzer capable of alerting users when their Blood Alcohol Content (BAC) exceeded the legal limit.
- [Collaborative Graphical Editor](#) (Java): Engineered a real-time collaborative graphical editing program that facilitated concurrent drawing, editing, and viewing of a shared graphical window over a local network.
- [NLP Part-of-Speech Tagger](#) (Java): Engineered Hidden Markov Models to predict the part of speech of words in sentences.
- [Rendezvous](#) (React Native): Collaborated with three other students to design and develop the front end of a date planning app. The project won the best design and implementation award in a class of 14 groups.
- [Campus Pathfinder](#) (Python): Implemented a program using BFS and Dijkstra's algorithm to find the shortest path between two locations on the Dartmouth campus.

## PERSONAL

**Language:** English, Ga (Native), Akan (Fluent)