

ERIC APPIAH ADJEI

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EDUCATION

Colby College, Waterville, ME

Bachelor of Arts in Computer Science & Mathematics

Expected Graduation: May, 2026

Technical Skills:

- **Proficient:** Python, Java, Flask
- **Familiar :** HTML/CSS, Matlab, Visual Studio Code, Visio, Turtle, Beautiful Soup, Requests, Ngrok
- **Relevant Coursework:** Calculus, Linear Algebra, Computational Thinking, Data Structures and Algorithms

PROFESSIONAL EXPERIENCE

Colby College CS Department

Teaching Assistant

Waterville, ME

September 2022 – Present

- Provide technical assistance in the installation and configuration of software applications for a diverse user base of 500+ students, ensuring seamless access to essential learning tools, frameworks, and resources.
- Mentor students in the utilization of diagnostic tools and techniques to review, identify, and debug codes, while optimizing algorithmic implementations.
- Facilitate student learning by instructing them in foundational computer science principles and in the utilization of Python libraries like Turtle, Numpy, Matplotlib, and Pandas for project development.

JP Morgan Chase, Code For Good Hackathon

Team's Backend Engineer

Wilmington, DE

September, 2023

- Collaborated with a team of six to develop a web application aimed at addressing food insecurity by implementing a personalized food pricing system based on user data.
- Leveraged PyMUPDF, Pytesseract, and regex libraries to create a PDF-to-text feature for the web app, enhancing its functionality.
- Utilized Twilio and Flask to design an SMS sign-up feature, providing users with a convenient and accessible registration method.
- Employed Ngrok for seamless testing and integration of the SMS sign-up feature, ensuring its reliability and effectiveness.
- Enhanced proficiency in Flask and backend development, concurrently cultivating robust teamwork and collaboration skills.

ALX Africa Software Engineering Program

Program Participant

Remote

June 2021 – August 2021

- Learned the fundamentals of Python programming and its useful modules; learned to use Pandas library for data analysis and manipulation.
- Built a backend module utilizing the "smtplib" and "email.mime.text" Python libraries to streamline the password reset process on a simulated website model, facilitating the sending of secure links to users' registered email in a mock user database for verification.
- Completed a six-week intensive web development boot camp, enhancing skills in HTML, CSS, JavaScript, and gaining proficiency in back-end development.

PERSONAL PROJECTS

Art-For-Climate-Change

Climate Change Visualization Tool

<https://github.com/heyerichere/Plant-Growth-Simulator>

- Implemented top-down OOP methods and modularity with the Python Turtle module to create an interactive simulation tool that reads, interprets, and visually represents L-system files on the screen.
- Created a GUI using Tkinter which allows users to interact with and navigate between different art scenes created with the Zelle Graphics and Matplotlib libraries that inform about climate change.

Project Right Diet

Food Calorie Calculator

<https://github.com/heyerichere/-Food-Calorie-Calculator>

- Built a calorie calculator that receives data from users on one end, draws internal analysis on calories taken in, and advises users on the best way to go with respect to weight loss and weight gain.
- Used the Requests and Beautiful Soup python libraries to take live data from websites to ensure accurate data presented by the calculator.
- Improved my efficiency in web scraping.

ACTIVITIES & LEADERSHIP

Colorstack Community, Member

June 2022 – Present

- Participate in and contribute to a community centered on community building, academic support, and career development for Black and Latinx undergraduate computer science students committed to solving world-pressing problems and pursuing technical careers after graduation.

Young Achievers' Foundation, Coding Outreach Coordinator

February 2022 – June 2022

- Organized programming seminars in 10 high schools; instructed students in basic programming concepts and applications through hands-on projects and interactive activities such as making flash cards, guess games, and python turtle drawings.

Codepath, Student

June 2023 – Present

- Engaged in weekly interactive lectures, workshops, and coding exercises covering a wide range of technical topics, including algorithms, data structures, system design, and problem-solving strategies.
- Developed a deep understanding of fundamental computer science concepts and applied them to solve complex coding challenges and algorithmic problems.

AWARDS AND ACCOMPLISHMENTS

Dean's List | Ghana Science Olympiad Gold Medalist | Armed Forces Senior High Technical School Valedictorian(2020).