ERIC ADJEI APPIAH

9022 Mayflower HL, Waterville, Maine | (207)-830-3974 | eaappi26@colby.edu | Linkedin

EDUCATION

Colby College, Maine **Expected Graduation**: May, 2026

Major: Bachelor of Arts, Computer Science

Relevant Coursework: Computational Thinking: Visual Media, Single-Variable Calculus, Software Engineering, Database Design & Dev, Data Visualization and Analysis, Data Structures and Algorithms,, Intro to Scientific Computing, Calculus, Linear Algebra, Differential Equations

TECHNICAL SKILLS

Programming languages: Python, Java

Experience with: HTML, CSS, JavaScript, Arduino, Visio, Matlab

PROFESSIONAL EXPERIENCE

Microsoft, Excel Accessibility Team **Redmond, WA**

Software Engineer Intern *May 2024 – Present*

- Developed and implemented global properties to maintain persistence of Dark Mode setting across sessions, enhancing user experience and interface consistency.
- Enhanced Excel's UX by implementing Dark Mode live preview, modifying sheet tabs, adjusting color schemes for optimal cell-edit mode appearance, and optimizing table rendering for Dark Mode, maintaining optimal contrast ratio as per Design specifications.
- Refactored existing Dark Mode codebase by applying engineering best practices and leveraging Git for version control, accelerating the shipment of the Dark Mode feature to over 1.3 billion customers.

Colby College ITS Department **Waterville, ME**

Information Technology Support Center Student Technician *September 2022 – Present*

- Provide technical assistance in the installation and configuration of software applications for a diverse user base of 6000+ students and faculty, ensuring seamless access to essential tools, frameworks, and resources.
- Utilize diagnostic tools and techniques to review, diagnose, troubleshoot, identify, and implement solutions to rectify operational and technical problems with hardware devices.
- Generate and update tickets for reported problems to ensure proper record keeping and facilitate efficient escalation of issues to senior technicians.

Codetivate Hackathon December, 2021

- Collaborated with a team of two to develop a solution for a python circular array rotation challenge under time constraints; improved proficiency in coding and debugging techniques.
- Attended workshops and seminars to enhance problem-solving skills using computer systems and simulations.

ALX Africa Software Engineering Program **Remote**

Program Participant *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.

Student Sports Info Statistician

- Use statistical tools and platforms such as Daktronics to record sport statistics.
- Works in a team to capture and record significant details of sport events at Colby.

SAT Mathematics and Writing Instructor

- Strategically taught mathematics concepts to help students ace the Scholastic Aptitude Test.
- Organized extra tutelage sessions for students who needed extra help.
- 90 percent of the students I taught performed greatly on the test and received admissions into highly rated colleges in the United States of America.

Laboratory Assistant

- Helped students in laboratory sessions to prevent laboratory-related hazards.
- Worked with 3 Physics instructors on their project that focused on the development of parametric methods for small aircraft design in Ghana.
- Gained knowledge in physics of flight with a focus on aerodynamics.
- Worked in a team of 3 to design, build & test a small-size glider.

JP Morgan Chase Code For Good Hackathon **Wilmington, DE**
Backend Engineer *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.

Colby College CS Department **Waterville, ME**
Teaching Assistant *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.

PROJECTS

Art-For-Climate-Change **https://github.com/heyerichere/Plant-Growth-Simulator**
Climate Change Visualization Tool

- 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.

Lock Sensor Project|Weija, Accra, Ghana December, 2021- January, 2022

- Designed and built a fingerprint door lock sensor model in a team of 4 to enhance effortless verification and home security using Arduino board, reflective sensors, energy shield, and servo.
- Learned servo modification for effective and continuous motor rotation.

Project Right Diet **https://github.com/heyerichere/-Food-Calorie-Calculator**
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.

LEADERSHIP EXPERIENCE

ColorStack Community Member

- 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.

AWARDS AND ACCOMPLISHMENTS

Ghana Science Olympiad Gold Medalist | Ghana National Science and Mathematics Quiz Quarter-finalist | High School Valedictorian.