Phyliss A. Darko

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Education

Boston University, College of Engineering **Expected May 2026**
B.S. in Computer Engineering *Boston, MA*
GPA: 3.3 (Awards: Dean's List & Circle Summer 2023)

Relevant Coursework

- Intro to Computer Science
- Applied Algorithms
- Intro to Software Engineering
- Engineering Data Science
- Computer Networking
- Intro to Logic Design
- Electric Circuits
- Computer Organization

Experience

BU Seclab (Security Lab) **Sept 2024 – Present**
Undergraduate Research Assistant Boston, MA

- Enhanced content moderation systems by categorizing and validating the accuracy of over 100 image data entries using PIXELMOD (Milvus), improving dataset reliability and enabling improved detection of misleading content on social media platforms.
- Supported machine learning dataset refinement by labeling data with Optical Character Recognition (OCR) and assisting in validation processes, improving image retrieval accuracy and search efficiency.

AI4ALL Ignite Program Accelerator **Sept. 2024 – Present**
Ignite Fellow Boston, MA

- Collaborated on the development of a music genre classification model, contributing to data preprocessing and exploring machine learning techniques for supervised learning.
- Presented findings on the ethical implications of AI model deployment and data sourcing practices to an audience of 30+ peers and mentors during a virtual symposium.

Girls Who Code - BU **March 2024 – Present**
Bits & Bytes Facilitator Boston, MA

- Tutored over 20 students (grades 3-12) in Scratch and Python, designing interactive coding projects such as animations and games, while developing inclusive lesson plans that increased student engagement by 30% across sessions.

Technical Skills

Languages: C++, Python, HTML/CSS/JS, TypeScript (learning), Bash, Kotlin, SQL, GraphQl (learning)
Frameworks & Libraries: React.js, Next.js (learning), Streamlit, SpaCy, Pandas, Selenium, PyTest (learning)
Tools & Platforms: Linux, Arduino, MATLAB, MySQL, Milvus, WebStorm, PyCharm, VSCode, Git (GitHub/GitLab), Jupyter Notebook, Android Studio, LaTeX
APIs & Services: Spotify API, Google APIs
Hardware & Electronics: Soldering, Circuit Design, Microcontrollers, Instrumentation, Arduino Uno, FPGA Boards
Other Skills: Project Management, Technical Writing, Data Analysis, Debugging, Teamwork, Leadership, Problem Solving

Projects

Metriq - Unit Converter | *HTML/CSS/JS, C++, Assembly, Team Project* **Nov 2024 - Dec 2024**

- Streamlined UI design by integrating help pop-ups, a unit swap feature, and interactive hover states using modular JavaScript, ensuring responsiveness, accessibility, and scalability for future expansions and diverse user needs.
- Optimized interface layouts and interaction design with real-time visual feedback, such as dynamic color changes for hover and click events, improving user engagement and delivering a polished, intuitive experience.

Resume Analyzer | *Python, Streamlit, SpaCy, PyPDF2* **Dec 2024 - Present**

- Developed a user-friendly Resume Analyzer leveraging Streamlit, enabling job seekers to upload resumes (PDFs) and receive real-time keyword analysis and content scoring based on job descriptions.
- Integrated SpaCy for NLP functionality to extract and analyze text, identify key skills, and assess alignment with job-specific requirements, with planned extensions for visual keyword highlights and tailored improvement suggestions.

Personalized Music Recommendation System | *Python, Streamlit, Spotify API, Pandas* **Jan 2025 - Present**

- Launched the development of a music recommendation system by integrating Spotify API with Python to fetch user playlist data, analyze listening habits, and deliver personalized song suggestions through an interactive Streamlit app.
- Designed data pipelines to process Spotify song metadata (tempo, genre, artist) using Pandas, with plans to incorporate collaborative filtering for recommendations and a dashboard to visualize user preferences and trends.

Leadership & Activities

Research Committee Lead - Black Students Task Force **Feb 2023 – Present**
• Led a research team of 12, conducting 10+ interviews and analyzing data to recommend student service improvements.

Graphic Designer - Ghanaian Students Organization **Sept 2023 – Present**
• Designed posters and info-graphics for social media campaigns, collaborating with organizers to promote cultural events, resulting in increased attendance, engagement, and social media shares.

Co-Chair – Student Elections Committee **Jan 2024 – Present**
• Collaborated with co-chairs to manage student elections, overseeing debates and promotional events, while streamlining processes to increase voter turnout by 20%.

Clubs/Affiliations: Society of Women Engineers, National Society of Black Engineers, Girls Who Code, BU on Beat, Rewriting the Code, Terrier Motorsport, ColorStack, Codepath, Black Girls Code, AI4ALL Ignite, Codepath