Brigidi Blay

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EDUCATION

Ashesi University   **Berekuso, Eastern Region, Ghana**

A rising junior and Computer Science Major.   *May 2026*

Current and Relevant courses: *Concepts of Programming Languages, Introduction to Probability and Statistics, Discrete Mathematics, Data Structures and Algorithms, Principles of Economics, Introduction to Modelling and Simulation, Computer Organization and Architecture.*

Recent Projects:

TrueCreation: *Developed an audio fingerprinting app for music producers using React Native, Node.js, and Python. Integrated Supabase for real-time database operations and VST preset recognition using Fast Fourier Transform.*

MoneyLink: *Built a secure cross-border money transfer platform with Node.js, MySQL, and Sequelize.*

PanicGuard: *Developed a panic attack risk assessment web app using Django for the backend and machine learning (Scikit-learn/TensorFlow) for predictive analytics. Trained a model on a panic attack dataset to evaluate user inputs like heart rate and stress levels. Designed a responsive frontend with HTML/CSS/JavaScript and stored data using SQLite/PostgreSQL for real-time risk scoring.*

News Portal: *Developed a responsive React news aggregator integrating multiple APIs (Apple, Tesla, WSJ, TechCrunch). Implemented advanced filtering, search, pagination, and state management with React hooks. Designed a modern UI using Tailwind CSS with dark mode and smooth transitions.*

Food Recommendation System: *Designed a personalized food recommendation model using Keras and Python.*

WORK EXPERIENCE

MoneyLink   **Claremont,CA**

Backend Developer   December 2024 – Present

- Developed RPC-style API endpoints using Node.js and tested with Postman.
- Optimized MySQL database operations, improving query efficiency by 30%.
- Collaborated with the team to integrate new features and troubleshoot issues.

TrueCreation   **Accra, Ghana**

Founder/CTO   August 2024 – Present

- *Founded a mobile audio analysis startup and led a team of 5 developers*
- *Built scalable backend services with FastAPI/PostgresSQL and a cross-platform mobile app using React Native/Expo*
- *Implemented audio fingerprinting algorithms for real-time analysis and search*

CodeTrain   **Accra, Ghana**

Intern   May 2022 – December 2022

- *Led diverse programming classes for students aged 13-50, covering fundamentals through advanced concepts including object-oriented programming, data structures, and web development.*

EchoHouse   **Accra, Ghana**

Digital Marketing Assistant   August 2021 – December 2021

- *Organized routine administrative duties such as scheduling meetings, launch digital campaigns and process campaign reports using excel.*

LEADERSHIP EXPERIENCE

For The Community   **Berekuso,Ghana**

CEO   May 2023 – Aug 2023

- *Mentored student team in repurposing spare parts to build bicycles for rural schoolchildren, improving their access to education.*

Lab Works   **Tema, G. Accra**

Organizer   Jan 2020 -Sept 2020

- *Organized workshops teaching Microsoft Office and basic chemistry to underprivileged and disabled students. Created accessible curriculum and hands-on activities to enhance digital literacy and STEM understanding.*

SKILLS

- *Technical: Python, C++, Java, React Native, Node.js, FastAPI, PostgreSQL, MySQL, Keras.*
- *Tools: Postman, DBeaver, Git, Excel.*
- *Extracurricular: Anime and Comics Club, EchoHouse Internship.*