Bismark Kafui Bedzrah

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EDUCATION

Ashesi University — **Ghana, Eastern Region**
Bsc. Computer Science — Expected Date of Graduation: Jul 2025

ACHIEVEMENTS AND AWARDS

The MasterCard Foundation Scholar Program, Ashesi University — **Sep 2022**
Coca-Cola Funds, Ashesi University — **Sep 2024**

WORK EXPERIENCE

Advance Techniques Driving Institute, Ghana — **Feb 2021 – Apr 2021**
Social Media Manager

- Generate, edit, publish, and share engaging content daily that creates awareness of the school to social media users. 10 students applied to the school via social media posts.
- Rolled out periodic updates and implemented critical bug fixes, enhancing the overall performance and dependability of the platform.

Ashesi University Library
Work-study Intern — **Aug 2022 – Jun 2023**

- Assisted students with technology and digital resources. Collaborated with universities, high schools, and colleagues to conduct user testing, implementing enhancements based on feedback to refine the platform for improved usability.

PROJECTS AND RESEARCH

Empower-Hands IT Training–Kasoa , Ghana — **Aug 2024 – Sep 2024**
Founder

- Founded a community initiative providing free IT education, focusing on coding fundamentals and digital literacy.
- Designed and delivered structured lessons for beginners, adapting content to diverse learning needs.
- Managed organizational resources, including budgeting and outreach, to sustain program operations.

E-voting Webapp, Web Technologies - Ashesi University — **Aug 2024**
Designed, developed, and implemented a full-stack e-voting web application using XAMPP, SQL, and front-end tools to facilitate secure and transparent student elections. Integrated user authentication, real-time vote tallying, and intuitive interfaces to enhance voter engagement, ensure data integrity, and improve administrative efficiency.

Diabetes Readmission Prediction — **Aug 2024**
Developed a predictive model using machine learning in python to categorize the 30-day readmission risk of diabetic patients. To enhance care planning, important variables such as age, previous hospitalizations, and diagnosis were examined. 59% accuracy in identifying high-risk patients was attained, allowing for focused interventions to minimize readmissions to hospitals and maximize the use of available resources.

Water Usage Estimate Prediction — **Aug 2024**

Developed a predictive model that uses usage and environmental data to predict water limitations in python. To precisely identify regions at risk of water scarcity, important factors such as population with rate of basic water access, and rate of surface water dependency. Predicting water limitations with 96% accuracy allowed for proactive resource management and mitigation techniques.

SKILLS

Programming Languages: Python, React, JavaScript, HTML, CSS, Java, C++, PHP, SQL,
Tools: Git, GitHub, Notion, Microsoft 365, Todoist, Canva, AWS, Figma, Flask, FastAPI, R-Studio