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**
Web Designer/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

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 to ensure secure access and data protection.

- Developed real-time vote tallying features to enhance transparency and trust.

- Built intuitive user interfaces to improve voter engagement and ease of use.

Diabetes Readmission Prediction – Ashesi University   **Aug 2024**

- Conducted data analysis to identify key factors (e.g., age, prior hospitalizations, diagnosis) influencing 30-day readmission rates.

- Developed a predictive framework in Python to segment high-risk groups and generate actionable insights.

- Achieved 59% accuracy in risk categorization, demonstrating the ability to translate data into strategic recommendations for resource allocation and targeted interventions.

Water Usage Estimate Prediction – Ashesi University   **Aug 2024**

- Analyzed usage and environmental data to identify regions at risk of water scarcity.

- Examined key factors such as population access to basic water and surface water dependency.

- Built a predictive framework in Python, achieving 96% accuracy, enabling proactive planning and resource management strategies.

Customer Churn Prediction – Ashesi University   **Nov 2023**

Trained and evaluated a customer churn prediction model using factors such as Total Charges, Monthly Charges, tenure, Contract type, and Payment Method, enabling accurate classification of customer retention behavior and supporting data-driven business strategies.

Empower Hands IT Program   **Sep 2024**

- Founded Empower Hands IT Program, a not-for-profit initiative delivering digital literacy training to young adults in Kasoa.

- Designed and led curriculum on basic computing, internet use, and digital tools to empower participants with practical skills.

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