KAUSARA KPABIA

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EDUCATION

MSc. Computer Science, University of Legon, Ghana　　　　**SEPT 2026**
Majors: Software Engineering, Advanced Databases, Advanced DSA

BSc. Medical Laboratory Science, University of Cape Coast, Ghana　　**AUG 2020**
CGPA: 3.4 out of 4.0 (Second Class Upper Honors)

PROGRAMMING LANGUAGES & TECHNICAL SKILLS

- PYTHON, RUBY , PHP　　| Django, Flask, Rails, Laravel
- Architecture & Principles: OOP, clean code, software architecture
- Testing: Unit testing, test coverage, maintainable code
- Databases: SQL Server, PostgreSQL, MySQL
- Tools: Git, GitHub

WORK EXPERIENCE

Backend Developer, Durra Institute　　　　　　　　　　**2023 - 2025**
- Contributed to the maintenance of internal web applications with Laravel, streamlining academic workflows for 500+ students.
- Designed a course registration and student record system that reduced manual data entry by 70% minimizing administrative errors.
- Delivered backend services using OOP and clean code, reducing code defects and improving maintainability by 30%

Backend Developer, Suhuyini & Co.　　　　　　　　　　**2022 - 2023**
- Improved UI by updating menus to be more intuitive, increasing sales by 5%.
- Contributed to the revamp of tech stack which resulted in 40% decrease in server costs.
- Used Git to manage version control across multiple projects, ensuring clean collaboration and efficient code reviews

Research Assistant, University of Cape Coast　　　　　　　**2020**
- Conducted a systematic review on HbA1c reliability in diabetic patients with hemoglobin variants.
- Synthesized data and presented findings on diagnostic accuracy and variability.

VOLUNTEERING & LEADERSHIP

Trainer, Global Code UK　　　　　　　　　　　　**SEPT 2025 - OCT 2025**
- Co-facilitated IoT & Raspberry Pi workshops, mentoring students on coding and hardware integration.

Lead, PyLadies Cape Coast　　　　　　　　　　　　**SEPT 2019- DEC 2020**
- Led local chapter empowering women in Python programming and open-source participation.

Co-Lead, Python Cape Coast　　　　　　　　　　　**MARCH 2019 - DEC 2020**
- Partnered with Python Ghana to expand programming outreach and community events.

Lead, GROW Cohort Project Team　　　　　　　　　　**JAN 2025 - APR 2025**
- Supervised data cleaning, visualization, and insight generation for decision-making.

Academic Counselor, University of Cape Coast　　　　　　　**2020**
- Mentored junior Medical Lab Science students in academics and research development.

HONORS & RECOGNITIONS

- Nominated Trainer, Global Code IoT Program: selected to mentor students on Raspberry Pi and hardware integration, 2025
- Selected for the 100 Women in Machine Learning Conference: recognized for leadership and impact in technology, 2019
- 2nd Position, DIV Hackathon: Selected as First Runner-Up among 7 teams at the 'A Day at Hubtel Hackathon', on innovation, technical execution, and potential social impact. 2019
- Academic Excellence Award Nominee, University of Cape Coast, 2017

PROFESSIONAL DEVELOPMENT

- AI/ML In Precision Medicine, Stanford University: AI and ML applications in genomic data analysis and precision healthcare innovation.
- CS50 Web Programming with Python & JavaScript, HarvardX: full-stack web development and scalable architecture
- Data Analytics Fellowship, Blossom Academy: data visualization, business insights, and team leadership
- Software Engineering Program, AltSchool Africa: backend development, API design, and systems integration