

# 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

Major: Biophysics, Statistics, Medical Technology

## PROGRAMMING LANGUAGES & TECHNICAL SKILLS

- PYTHON, RUBY , PHP, Java | 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

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- 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