SHAMMAH AGYARE

Product Developer & Designer

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SUMMARY

Multi-disciplinary Software Developer and data scientist with 4+ years' experience in full-stack mobile/web application development, UI/UX product design, and product analytics. Specialized in Flutter and Django with a portfolio spanning environmental sustainability, health tech, and socioeconomic solutions. Proven track record in predictive modelling, RESTful API integration, design prototyping, and real-time dashboarding. Passionate about inclusive technology, impact-driven platforms, and scaling African tech innovation.

CORE COMPETENCIES

Cross-platform mobile	and web develop	oment	
Product development	ETL pipelines	API integration	
Real-time dashboards & BI reporting		product architecture	
UI/UX research, wirefra	aming, accessibil	ity design & testing	
diagnostic analysis	predictive analy	tics Machine learning	

EXPERIENCE

Backend developer & BI analyst (Consultant)

Aqualings Digital Agency

- · Developed Flutter-based EcoMine Watch mobile app to monitor illegal mining (Galamsey) impacts in Ghana.
- Designed 10+ cross-platform applications using Flutter framework, engaging a team of 25+ developers.
- Increased client satisfaction rate by 20% by implementing automated reporting systems with SQL and Python.
- Enhanced product deployment speed by 35% by integrating automated testing protocols.
- Boosted the DeafCan Talk Mobile App user interface satisfaction by 30% by leveraging advanced Figma prototyping techniques.
- Enhanced a retail optical store's database guery efficiency by 40% by optimizing indexes and eliminating redundancies.

Data scientist & Product Designer

Best Sight Opticals limited

= 08/2023 - 07/2024 Ghana

- · Built a CRM dashboard with Firebase and Flutter improving retention by 40%.
- Deployed a customer retention prediction prediction model (85% accuracy) and sentiment analysis engine, resulting in a 20% reduction in customer attrition.
- Spearheaded a Python-based predictive analytics modelling project, forecasting demand and boosting revenue by 40%.
- Created flutterflow UI/UX prototypes for patient engagement and service flow, impoving satisfaction ratings by 25%
- Supported integration of 30 APIs, managing data flow across 20 applications.
- Enhanced data accuracy by 35% by deploying advanced data validation techniques and machine learning algorithms

TECH STACK

Languages 8	& Frameworks

Dart	Python	JavaScript	SQL
HTML	Django	Node.js	Express.js

UI/UX & Front-End

Figma	Canva	Flutter	Adobe	

Databases

PostgreSQL	MySQL	SQ	Lite		
MS SQL Server	Mongo	DB	Firebase		
ETL & Data Integration					

Apache Airflow		ower Automate
Docker	REST API	s Batch Workflows
API-base	d Ingestion	

Cloud & Infrastructure

Google Cloud		Computing	AWS
Firebase	SA	P ERP(CS/PM)	

Libraries

Dplyr	Tidyverse	NumPy	Pandas
Seaborn	Matplotlib	Scikit	-Learn

Minuspett Office Cuite

Other Tools

Microsoft Office Suite		Google Analy	/tics	
Git	ArcG	S Trello	Slack	
GitH	ub Page	s Monda	ay.com	
Smar	rtPLS	Visual Stu	dio	
CRM	System	ıs		

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EXPERIENCE

Chief Data Specialist/M&E Advisor

Agriculture and Climate Empowerment Centre

- Designed and implemented a Data Governance & Project Monitoring System for a USAID \$500K bio-energy project in Sierra Leone—achieving 100% compliance with all 46 KPIs.
- Applied NLP techniques to analyze survey data, improving climate justice policyrecommendations by 30%.
- Built data audit systems within the USAID Bio-stove project delivery that met USAID standards.
- Analyzed and visualized 200+ quantitative and qualitative data sets from different researchworks using R, Python, Tableau and Power Bi, which resulted in designing a coastal resourcesmanagement dashboard influencing policy action in Ghana.

EDUCATION & CERTIFICATIONS

Front-End Developer Professional Certification Microsoft

UX Design Professional Certification

Google

Applied AI Developer Certification

IBM

Back-End Development Professional Certificate

Certificate in Associate Data Scientist DataCamp

MicroMasters Program in Data Analysis

MITX Online

CPD Certificate in Monitoring and evaluation

Monitoring and Evaluation Academy of Excellence

Data engineering certification

Trestle Academy Ghana

Certificate in Applied Data Science with Python

University of Michigan

Certificate in Business Analytics with R

University of Illinois Urbana-Champaign

Postgraduate diploma in Project Management

University of California, Berkeley

LANGUAGES

••••	French Intermediate	••••
••••	Twi	••••
	•••••	Intermediate

KEY ACHIEVEMENTS



USAID Project Success

Achieved 100% compliance with 46 KPIs in USAID project.



Revenue Increase

Boosted revenue by 40% through demand forecasting with Python.



Client Satisfaction Boost

Improved client satisfaction by 20% using automated reporting.



API Integration Support

Supported integration of 30 APIs across 20 applications.

PROJECTS

Ghana beyond Galamsey ML Dashboard

Built a predictive dashboard to visualize illegal mining activity with live data feeds.

EcoMine Watch App

Mobile solution for galamsey mining impact monitoring across health, water and socio-economic data.

Aquaculture Market Web

A block chain traceability system and web app linking aquaculture value chain actors in Ghana, boosting sustainability and market access.

WeSearch 4 Development

A Django based Research and inclusive data storytelling web app amplifying gender-climate narratives and reducing climate injustice.

Retirement Planner App

Personalized savings and investment tracker built in Flutter with smart financial goals recommendations.

DeafCanTalk UI/UX & Frontend

Designed Wireframes, mockups and prototype for a flutter based mobile app empowering the deaf communities globally.

AWARDS & MEMBERSHIP

Ambassador

1	Because She Can	苗 2024 - Present
	Active member	
*	Women in Tech Africa	苗 2021 - Present
	Active member	
*	Africa Matters Initiative	苗 2024 - Present
	Climate Justice	

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VOLUNTEERING

Environmental research analyst/Climate justice ambassador

Africa Matters Initiative, South Africa

= 01/2025 - 04/2025

- Developed and launched the WeSEARCH 4 Development web app for climate data collection, management and storytelling, resulting in enhanced evidence-based advocacy efforts.
- Deployed a question-answering system to support public education campaigns on climate-smart practices, increasing engagement by 20%.
- Created 15+ visually impactful dashboards and impact story reports in PowerBI and Tableau, influencing fundraising allocation strategies.
- Trained 25 young women (including PwDs in climate research and advocacy actions, contributing to enhanced voice and women's participation in climate decsion-making in Northern Ghana.

AWARDS & MEMBERSHIP



Blossom Academy Data Analytics Fellowship



Fellow

INTERESTS

Inclusive design

Women & Youth empowerment

Podcasting

Tech for sustainability

Community impact app development

Travelling and hiking Enthusiat

Research for Development

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