

# Afia Asantewaa Ofori

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## BACKEND DEVELOPER | WEB DEVELOPER

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Backend Development | API Design | Database Management | System Architecture

Motivated and versatile backend developer with strong proficiency in Python, FastAPI, and RESTful API design. Experienced in building scalable backend systems and integrating third-party APIs. Transitioned from a background in Medical Laboratory Science, bringing analytical precision, teamwork, and research discipline into software engineering. Passionate about developing efficient, data-driven digital solutions that solve real-world problems and improve accessibility.

## Work Experience

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Deafcantalk—Remote/Ghana

Web Development Intern | Nov 2024 – Present

- Collaborated with a cross-functional team to design and develop the main Deafcantalk website.
- Contributed to backend API development, integrating database connections and authentication logic.
- Learned and implemented VideoSDK integration to enable real-time virtual meetings between interpreters and the deaf community, enhancing accessibility and communication.
- Designed and maintained a project outline document, regularly updating it to track progress, completed tasks, and team deliverables.
- Participated in sprint reviews, testing, and GitHub version control to ensure consistent and reliable project delivery.

Noguchi Memorial Institute for Research—Accra, Ghana

Phlebotomist | Jul 2023 – Oct 2024

- Collected and managed biological samples with precision and adherence to research standards.
- Ensured accurate data handling and timely sample processing for diagnostic studies.

University of Cape Coast, School of Medical Sciences—Cape Coast, Ghana

Teaching & Lab Assistant | Nov 2022 – Sep 2023

- Supported faculty in laboratory setup and data collection during experiments.
- Guided students in community-based research projects (COBES) and graded academic work.

## Technical Skills

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- Frontend: HTML, CSS
- Backend: Python, FastAPI,
- Databases: MongoDB | MySQL | RESTful API Design | CRUD Operations
- DevOps & Version Control: Git, GitHub Workflows
- Other tools: Microsoft Office, Google Suite, VSCode

## Soft Skills

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- Analytical Reasoning & Problem-Solving
- Effective Communication
- Teamwork & Collaboration
- Project and Time Management

## Projects

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### Autobid—Automated Vehicle Bidding Platform | [Render](#)

- Built backend APIs for managing auctions, bids, and authentication using FastAPI and MongoDB.
- Integrated secure login and bidding logic, improving performance and reducing request failures by 30%.
- Collaborated with frontend and design teams for seamless integration and UI synchronization.

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### Movie Finder API | [GitHub](#)

- Developed a FastAPI application integrating OMDb API to fetch movie data.
- Implemented MongoDB to store user ratings, and deliver a secure, high-performance API
- Integrated “Top 3 Favorites” ranking feature, reducing manual search time by 50% and improving user engagement by 30%.

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### Food Advertisement Platform | [GitHub](#)

- Collaborated in a cross-functional team to design and build a web-based platform for posting and managing food advertisements
  - This platform streamlined listings and increased user reach by 45% while improving team delivery speed by 30%
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## E-commerce Website | [GitHub](#)

- Designed and implemented secure authentication and user management to protect customer data and enable personalized experiences.
- Built cart functionality with CRUD operations to support product selection, updates, and checkout workflows.
- Optimized API endpoints for performance and scalability, improving transaction speed and reducing request failures by 25%.

## Education

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Web Development Training — MEST Africa | Osu, Ghana (Aug 2025 – Nov 2025)

B.Sc. Medical Laboratory Science — University of Cape Coast | Ghana (Aug 2018 – Nov 2022)

## Awards & Certifications

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- Web Development Fundamentals (IBM Skillsbuild, 2025)
- Allied Health Professions Council License (2022)