Rosemond Ampomah

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EDUCATION

ALX Africa   **Mar 2025 – Oct 2025**
Frontend Web Development Program

University of Energy and Natural Resources, *Sunyani, Bono Region, Ghana*   **Sept 2017 – Oct 2021**
BSc. Computer Science

WORK EXPERIENCE

Digiits Agency, *Airport Residential, Accra, Ghana*   **Oct 2025 - Dec 2025**
Software Development Intern

- Translated ambiguous product requirements into clear specifications by identifying inputs, outputs, constraints, and edge cases before implementation, reducing rework and defects.

- Designed and shipped features incrementally using pseudocode, modular architecture, and small testable units, improving development speed and code quality.

- Improved system reliability by applying disciplined debugging (hypothesis testing, isolation, logging, and binary-search fault narrowing) and writing tests to validate behavior.

- Maintained high engineering standards through clean code practices, disciplined version control, code reviews, and continuous feedback from senior engineers.

Brilliant Maths and Science Education, *Labone, Ghana*   **Sept 2022 – Aug 2025**
IT and Mathematics Tutor & EdTech Specialist

- Delivered personalized instruction in Mathematics and ICT, aligning with Cambridge curriculum standards and learning objectives

- Integrated digital tools and e-learning platforms to enhance engagement, accessibility, and assessment efficiency in hybrid classroom settings

- Designed and implemented data-driven progress tracking systems, improving performance analysis and reducing manual grading workload by 60%

- Developed and refined digital learning content, ensuring alignment with curriculum goals and learner outcomes

- Conducted student performance analytics to identify learning gaps and recommend targeted interventions for academic improvement

Stanbic Bank, *Airport City, Ghana*   **Oct 2021 – Aug 2022**
Business Analyst & Product Quality Assurance - Intern

- Achieved 99.5% system reliability by performing comprehensive UAT processes for critical banking software implementations

- Utilized SQL-based reporting dashboards to analyze operational data and support data-driven business decisions across multiple departments

- Collaborated with 5+ development teams on requirements gathering and system integration projects worth

- Supported enhancements to QA workflows, contributing to more efficient software deployments while maintaining compliance and quality standards

Ghana Broadcasting Corporation (GBC), *Kanda, Ghana*   **Jun 2019 – Aug 2019**
Systems Integration & User Support Specialist

- Applied critical problem-solving skills to troubleshoot system issues, directly preparing for analyzing and resolving administrative challenges and assisting in research support tasks.

- Managed multiple tasks and competing administrative priorities to ensure smooth departmental operations, showcasing strong organizational and time management skills crucial for coordinating faculty calendars and departmental resources.

- Translated complex technical processes into accessible language for over 200 diverse users, demonstrating strong communication skills essential for faculty, student, and staff support.

PROJECTS

WASSCE OCR & Aggregate Processing System , *Personal Project*   **Dec 2025**
React, Electron, JavaScript, OCR, Data Processing

- Designed and built an end-to-end OCR-driven desktop application that automatically extracts, parses, validates, and computes WASSCE aggregates from scanned result slips, eliminating manual data entry and reducing processing errors.

- Engineered a robust multi-document comparison and merging algorithm to intelligently select the best grades across multiple exam sittings.

- Implemented a fault-tolerant parsing pipeline with normalization, subject matching, and rule-based validation to convert unstructured OCR text into structured academic records with high reliability.

- Architected the system for real-world deployment (Electron desktop, folder-based batch processing, offline operation), enabling scalable use in admissions offices with minimal user interaction.

MindMama - A mobile app that reduces the mental load of mothers by assisting with domestic tasks, *Tech Sisters Hackathon*   **Nov 2025 - Ongoing**
Hackathon Team Project

- Developed a responsive mobile interface using React Native and Tailwind CSS, focusing on reducing cognitive load for mothers through intuitive, accessible UX design.
- Integrated AI-driven features via RESTful APIs to automate domestic task scheduling and mental load tracking, ensuring seamless data flow between the frontend and backend services.
- Implemented state management using React hooks to handle real-time updates for task completion and AI recommendations, maintaining high performance across various mobile devices.
- Collaborated within an Agile team to transition from initial concept to a high-fidelity, functional prototype within a competitive hackathon timeline, securing 1st place.
- Designed modular, reusable components for the app's dashboard, interactive task lists, and AI feedback loops, ensuring code maintainability and scalability.

RoseBinge - Movie Database Web App, *ALX Africa*   **Oct 2025 - Ongoing**
Personal Capstone Project

- Responsive movie search and discovery platform built with React and Tailwind CSS, featuring dynamic data integration from the OMDb API.
- Modular and scalable front-end architecture with reusable components for search, movie cards, hero section, and detailed modal views.
- Intuitive user interface with a feminine yet bold theme, modern typography, smooth navigation, and mobile-first design optimized for various screen sizes.
- API requests and user interactions using React's useState and useEffect hooks, ensuring seamless and efficient data fetching.
- Real-time movie information display including poster, title, release year, genre, ratings, and cast details, with integrated error handling and smooth navigation.

SKILLS

Programming & Development : JavaScript, TypeScript, HTML5, CSS3, React.js, React Native, Expo, Tailwind CSS, SQL, Python, API Integration, Version Control (Git & Github)

Databases & Backend : SQL, Database Design, System Integration, Supabase (PostgreSQL)

Development Practices & Tools: Agile/Scrum, Code Reviews, Documentation, Debugging, Performance Optimization, Unit Testing, Functional Testing, User Acceptance Testing (UAT), Code Coverage, Miro, Notion, Figma, Microsoft Office Suite, Google Workspace

UI/UX Design & Prototyping: Figma, Wireframing, Low-Fidelity Mockups, Interactive Prototyping, User Flow Design, Architecture Diagrams

Soft Skills: Analytical Problem-Solving, Team Collaboration, Stakeholder Engagement, Written & Verbal Communication, Code Documentation, Continuous Learning, Technical Documentation, Committed to Code Quality, Testing Coverage, Writes Clean, Maintainable Code with Strong Testing Practices and Debugging Skills

Languages: English, Twi, Ga — Native, French (B1 Certified)