

# Samuel Kwarteng Okyere

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## Professional Summary

Passionate and results-driven Software Engineer with hands-on experience in front-end development, cloud computing, and resilient system design. Contributing to software solutions at the University of Energy and Natural Resources while serving as a Teaching Assistant, reinforcing both technical and communication skills.

Seeking to advance my expertise in artificial intelligence and software engineering. Committed to continuous learning, innovation, and applying AI to solve real-world problems with scalable, intelligent systems.

## Key Skills

- **Programming & Frameworks:** JavaScript, React, HTML/CSS, Python, Flutter
- **Cloud & DevOps:** AWS, Docker, CI/CD, Infrastructure as Code
- **Frontend Development:** Responsive Design, UI/UX Principles
- **AI & Emerging Tech:** Blockchain Basics (Certified), Fundamentals of Machine Learning Concepts
- **Tools & Platforms:** Git, GitHub, npm, Sanity CMS
- **Soft Skills:** Problem Solving, Collaboration, Technical Communication, Coaching

## Professional Experience

### Software Engineer

*University of Energy and Natural Resources – Sunyani, Ghana*

*Jan 2025 – September 2025*

- Develop and maintain scalable web applications supporting academic and administrative operations.
- Implement front-end interfaces using modern frameworks ensuring usability and performance.

### Teaching Assistant

*University of Energy and Natural Resources – Sunyani, Ghana*

*Oct 2024 – Sep 2025*

- Supported undergraduate courses in programming, data structures, and information technology.

- Mentored students in coding assignments, debugging, and project development.
- Reinforced personal mastery of foundational IT concepts while improving teaching and leadership abilities.

Assistant (Printing & Web Development Training)

Amfex Network – Sunyani, Ghana

*Jan 2023 – September 2024*

- Assisted in daily operations of a printing services business, supporting tasks such as document preparation, design adjustments, and production workflows.
- Supported instructors in delivering training programs in **web development and programming fundamentals**, including HTML, CSS, JavaScript, and basic software concepts.
- Gained hands-on exposure to teaching, client interaction, and the practical application of web technologies in a training environment.

## Education

Bachelor of Science in Information Technology

*University of Energy and Natural Resources*

Graduated: 2024

- Relevant Coursework: Data Structures, Web Technologies, Database Systems, Networking
- Academic Projects: Built a breast cancer detection system as my final year project.

## Certifications

- Blockchain Basics
- Cloud Computing Fundamentals

## Projects & Portfolio

Intelligent Weather Prediction Dashboard (Conceptual)

- *Technologies:* React, OpenWeather API, Machine Learning (basic regression model)
- Developed a dashboard that visualizes weather trends and uses historical data to predict patterns using simple ML models. Demonstrates interest in data analysis and AI applications.

Sanity-Powered Content Hub with Search Optimization

- Built a dynamic content platform where users can explore technical articles; integrated efficient querying mechanisms — shows ability to work with structured data and developer

## Frontend Projects (Live Demos)

### Age Calculator

Technologies: HTML, CSS, JavaScript

Built a responsive age calculator that computes exact age in years, months, and days based on user input.

Live Demo: <https://age-calculator-lilac-eta.vercel.app/>

### New Year Countdown

Technologies: HTML, CSS, JavaScript

Developed a real-time countdown application displaying remaining days, hours, minutes, and seconds to the New Year.

Live Demo: <https://new-year-countdown-mocha-sigma.vercel.app/>

### Pomodoro Timer

Technologies: HTML, CSS, JavaScript

Implemented a productivity-focused Pomodoro timer with work/break cycles to improve time management.

Live Demo: <https://pomodoro-timer-ivory-phi.vercel.app/>

### Heart Trail Animation

Technologies: HTML, CSS, JavaScript

Created an interactive UI animation that generates dynamic heart trails following cursor movement.

Live Demo: <https://heart-trail-gamma.vercel.app/>

### Real-Time Character Counter

Technologies: HTML, CSS, JavaScript

Built a live character counter that updates instantly as users type, improving form usability.

Live Demo: <https://real-time-character-counter-five.vercel.app/>