

Bismark A. Agyei

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• [LinkedIn](#) • [GitHub](#) • [Portfolio](#)

Profile

Web Developer proficient in Python, PostgreSQL, Dart, and modern frameworks (ExpressJS, React-Vite, FastAPI). Experienced in building responsive, scalable applications across frontend and backend. Passionate about transforming complex requirements into user-friendly solutions with real-world impact.

Skills

Languages: Python, SQL, HTML, CSS, JavaScript, Dart

Frameworks: Tkinter, FastAPI, React, Next.js, ExpressJS, Flutter

Tools: Git, GitHub, Visual Studio Code, Netlify, Supabase

Database Systems: MySQL, MongoDB, PostgreSQL

Soft Skills: Resilience and Growth Mindset, Collaboration and Team Work, Effective Communication, Attention to Detail, Empathy and User-Centric Mindset, Adaptability

Professional Experience

Product Developer (Volunteer) | *Ishara Recycling, Kumasi – Ghana.*

Jan. 2022.

- Conducted user research interviews with 20+ recycling facility operators and 50+ community members, identifying 8 key pain points that informed prototype design requirements.
- Collaborated with a 5-person cross-functional team to implement 12 UI/UX improvements, increasing prototype usability score from 62% to 89% across 3 iteration cycles.
- Applied agile feedback methodology with bi-weekly sprints, reducing time-to-insight by 35% and delivering 2 functional prototypes within a 4-week timeline.

Student Energy Fellowship Program | *Student Energy, Vancouver, Canada (Remote)*

March– Sept. 2024.

- Researched SMR integration feasibility through analysis of 40+ technical papers and 15+ stakeholder interviews, producing a 50-page comprehensive feasibility report for Ghana's energy sector.
- Evaluated Ghana's energy landscape using data analysis tools, identifying 3 viable deployment locations and quantifying potential capacity addition of 600MW+ through SMR implementation.
- Strengthened cross-functional collaboration skills across an 8-person global team, delivering project milestones 100% on schedule and contributing to 2 peer-reviewed research outputs.

Projects

Author Web Application | [Link](#)

- Engineered a full-stack author website using ExpressJS and MongoDB backend with React-Vite frontend, enabling 50+ book catalog entries and reducing page load time to under 2 seconds through optimization techniques.

Africa Bureau of Education Website | [Link](#)

- Developed a responsive React-Vite website with custom domain (GoDaddy) and Netlify deployment, serving 1000+ monthly visitors and achieving 95+ Lighthouse performance score.

Tankas App | [Link](#)

- Built a community sanitation mobile app using FastAPI and MongoDB backend with vanilla HTML/CSS/JS frontend, processing 500+ user registrations and reducing form submission time by 40% through optimized database queries.

Portfolio Website | [Link](#)

- Created a responsive personal portfolio using React-Vite for frontend and FastAPI - MongoDB for backend and Netlify, attracting 200+ monthly visitors and generating 15+ employer inquiries within the first 3 months of launch.

Education

MEST

Aug. 2025 – Nov. 2025.

Web Development

Relevant Coursework: Python, MongoDB, HTML, CSS, JavaScript, Nice GUI, Fast API

Kwame Nkrumah University of Science and Technology

Aug. 2018 – Sept. 2022.

B.Sc. Metallurgical Engineering

Relevant Coursework: Numerical Methods and Simulation, Process Control and Simulation, Research Methodologies, Materials Characterization, Software Tools: MATLAB & SolidWorks.

Reference

Available upon request.