Joseph Okore Agyapong

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EDUCATION

University of Ghana Jan 2022 – Sep 2025 | Accra, Ghana
BSc. Actuarial Science
Relevant Coursework: Introduction to Programming, Data Structures and Algorithm, Operating Systems, Computer Architecture, Model-Based Programming, Mathematics, Statistics, AI and Machine Learning

WORK EXPERIENCE

Electricity Company Of Ghana Mar 2025 – May 2025 | Accra, Ghana
Software Engineer Intern
- Led an engineering team to build a meter tracking system, improving field-to-office coordination and cutting unreported meter visits by 40%, which boosted ECG's billing accuracy and reduced revenue leakage.
- Developed and secured a centralized database with role-based authentication, enabling supervisors to assign and track meters in real time and increasing task allocation efficiency by 35%, reducing delays in customer servicing.
- Streamlined collaboration using Git/GitHub, implementing structured version control that reduced deployment time by 25%, accelerating feature delivery, and improving operational responsiveness.

Freelance Front-End Developer ↗ 2025 – present | Accra, Ghana
Remote
- Developed an interactive web application for mathematics learning using HTML, Tailwind CSS, and JavaScript, delivering a fully responsive and user-friendly interface.
- Built and integrated dynamic problem-solving modules that enabled real-time interaction, increasing user engagement and improving learning outcomes by 30%.
- Independently delivered a production-ready solution from design through deployment, demonstrating the ability to build, test, and ship applications end-to-end. The platform improved practice efficiency and provided a scalable digital tool for mathematics education.

Love Economy Church Thesaurus 2024 – present | Accra, Ghana
Frontend Developer
- Contributed to the development of an attendance tracking system now used by 500+ active members, helping leadership monitor attendance patterns and improving reporting accuracy by 40%.
- Implemented secure authentication and access controls, safeguarding sensitive member data and ensuring 100% role-based protection for users.
- Streamlined collaboration using Git/GitHub, which improved development efficiency and reduced feature rollout time by 25%, enabling faster delivery of growth-focused insights to leaders.

PROJECTS

Depression Detection using NLP
Python, Scikit-learn, NLTK, TensorFlow
- Applied NLP and machine learning techniques on social media text using Python (Scikit-learn, NLTK, TensorFlow) to detect indicators of depression, achieving 92% classification accuracy.
- Developed an interactive dashboard to visualize sentiment trends and detection results, enabling actionable insights and improved mental health monitoring.

Decentralized banking system on the Internet Computer (ICP) ↗
Motoko, JavaScript
- Designed and deployed smart contracts on the Internet Computer Protocol (ICP) to enable transparent and secure digital transactions.
- Simulated 100+ financial transactions to validate scalability, security, and reliability of the deployed contracts.

SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, SQL
Developer Tools: VS Code, Git/GitHub, Node.js, Expo, PostgreSQL, MongoDB, Jupyter Notebook
Libraries / Frameworks: React.js, React Native, Tailwind CSS, Express.js, Flutter, Pandas, NumPy, Scikit-learn
Other Skills / Concepts: RESTful API development, Authentication & Authorization, Data Visualization, Agile Project Management, Machine Learning, NLP basics