FRANK OKODI AKPAN

FRONTEND DEVELOPER | CODING & ROBOTICS INSTRUCTOR | STEM EDUCATOR

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PROFESSIONAL SUMMARY

Technology professional with experience spanning frontend web development and coding instruction for children and beginner learners. Skilled in explaining technical concepts clearly, creating supportive learning experiences, and developing responsive, user-focused web interfaces. Brings a practical, project-based approach to teaching, along with problem-solving, debugging, communication and learner mentoring strengths. Interested in opportunities in frontend development, coding education, STEM instruction and educational technology.

CORE SKILLS

- Frontend web development and responsive interface design
- Code debugging, testing and problem-solving
- Lesson planning, learning materials and project-based instruction
- Technical communication and collaboration
- UI implementation, usability and cross-device layout refinement
- Coding instruction, tutoring and learner mentoring
- Computational thinking, logical reasoning and learner engagement

PROFESSIONAL EXPERIENCE

Coding Instructor / Home & Online Tutor

Flourish Court School | *Lagos, Nigeria · Remote and classroom* | *July 2024 – Present*

- Deliver personalised coding lessons to children and beginner learners through home-based and online instruction.
- Break down programming concepts into clear, accessible explanations and guide learners through practical coding activities.
- Prepare lesson plans, learning materials and project-based exercises aligned with learners' abilities and goals.
- Build learners' computational thinking, creativity, logical reasoning and problem-solving skills through guided practice.
- Monitor learner progress, provide constructive feedback and adapt teaching methods to individual learning needs.
- Encourage learners to apply new concepts by creating simple digital projects and presenting their work.

Frontend Web Developer

Arc-tech Education Ltd. / Freelance | *Lagos, Nigeria* | *April 2017 – Present*

- Design and develop responsive website interfaces with an emphasis on usability, clear structure and consistent presentation.
- Build and style web pages using frontend technologies relevant to each project.
- Implement interactive interface elements and refine layouts for desktop, tablet and mobile screens.
- Test website pages, identify display or functionality issues, and debug code to improve the user experience.
- Maintain and showcase development work through project and portfolio channels.

SELECTED PROJECT

Classic Pong Game – 2D Arcade Simulator

- Developed a desktop recreation of the classic Pong arcade game, featuring paddle controls, ball collision mechanics, automatic score tracking and increasing difficulty.
- Designed the game logic, including real-time keyboard input, continuous physics calculations and frame-rate-independent state updates within an interactive graphics loop.
- Implemented axis-aligned bounding-box (AABB) collision detection, dynamic ball-reflection angles, game-over and reset states, audio-visual feedback, and an AI-controlled paddle opponent.

ADDITIONAL INFORMATION

Work preference: Remote / Home-based
Availability: Immediate
References: Available upon request