SONPON YE-SHUA CHIEF

Accra, Ghana | +233 53 746 0511 | sonponyeshua@gmail.com | LinkedIn | GitHub | Figma Portfolio

PROFILE SUMMARY

Level 300 Computer Science student and Co-founder specializing in Machine Learning and Human-Centered Systems. Experienced in architecting AI-driven education platforms and therapeutic game environments. Adept at bridging complex backend logic (Python, Machine Learning) with intuitive UI/UX to deliver scalable, high-impact solutions for health and education.

TECHNICAL SKILLS

AI & Logic: Machine Learning (Regression, Classification), Search Algorithms (BFS, DFS, IDS, A*), Fireworks AI (Model Orchestration)
Programming: Python, JavaScript (React, React Native), Godot, SQL (Supabase)
Systems: Computer Networks, API Design & Optimization, Git / Version Control
Design: UI/UX Design (Figma), Design Systems, Prototyping, Brand Identity

FOUNDER & PROJECT EXPERIENCE

Co-Founder & Systems Developer | Preworks (MindMesh)

• Architected an interactive education hub for academic research, automating paper indexing for students and faculty.
• Designed and integrated an AI ecosystem featuring custom chatbots, automated quiz generation, and digital flashcards.
• Optimized API structures and database queries, achieving sub-second response times for data retrieval.

AI Designer and Frontend Developer | Project Aya

• Developed a multi-model AI store assistant using Fireworks AI with routing logic that dynamically selects models based on prompt complexity to reduce latency.
• Applied Machine Learning and NLP techniques to create emotionally responsive and context-aware user interactions.

Researcher & Game Developer |

• Integrated AI-driven companions to support patients experiencing loneliness and depression through interactive storytelling.

EDUCATION

BSc Computer Science | University of Ghana (2023 – 2027)
GPA: 3.6 / 4.0

Specializations: Machine Learning, Computer Networks, Data Structures & Algorithms
Relevant Project: Implemented Iterative Deepening Search (IDS) in Python to optimize state
-space exploration for complex problem-solving.