Kimathi Elikplim Sedegah

Founder, Code Cadence | Full-Stack Developer | AI & RAG Enthusiast

Accra, Ghana | sedkim370@gmail.com Portfolio | LinkedIn | GitHub /sedegah

Professional Summary

Innovative Full Stack Developer and Founder of Code Cadence, with a track record of building impactful technology solutions since the age of 19. Passionate about solving real-world problems using modern tools across backend engineering, functional programming, and AI-powered systems. Skilled in developing both web platforms and low-level CLI utilities, with multi-language fluency in Java, Python, Haskell, Prolog, Zig, and TypeScript. Currently pursuing a B.Sc. in Computer Science at the University of Ghana while actively publishing projects in the AI/ML and developer tooling space.

Core Skills

- Languages & Paradigms: Java, Python, TypeScript/JavaScript, Haskell, Prolog, Zig, PHP, Shell, COBOL
- **Frameworks & Tools:** React, Next.js, Node.js, Streamlit, Supabase, Docker, Git/GitHub, CI/CD
- **AI/ML & Retrieval:** Retrieval-Augmented Generation (RAG), semantic search, embeddings, transformer modeling
- **Specializations:** Functional programming, system utilities, full-stack architecture, CLI tooling, Streamlit apps

Projects & Technical Contributions

- Neurelic RAG-Powered Knowledge Assistant
 - A modular Retrieval-Augmented Generation system with semantic search, LLM-driven answers, multi-format doc support (JSON, text), and a Streamlit UI for interactive querying. (GitHub)
- **NoCaptive** Shell-based CLI to detect captive portals and verify open internet connectivity.
- **Nav–Accra** Haskell CLI implementing Dijkstra's algorithm to compute shortest paths across Accra.
- **Sentinel** Python tool for real-time DoS detection and mitigation on servers.
- **Cron-tool** Java utility translating natural language schedules into cron expressions, with generated explanations and next-run predictions.
- **Tabulyst** Haskell tool for inspecting, filtering, and auto-generating SQL schemas from CSV data.

- **TuneTrainer** Real-time pitch detection utility in Python to identify tuning accuracy.
- **GitIntel** Java-based GitHub analytics tool showing non-mutual followers and network insights.
- **ZigScan** Zig-written CLI scanner that detects suspicious Unicode characters in code, optimized for VS Code integration.
- **TimeTableGen** Prolog-based engine generating conflict-free university timetables with customizable exports (CSV/HTML).
- **SysVerge** Java system analyzer using OSHI to display current OS and hardware performance metrics.
- **Updevted** React app aggregating developer news, GitHub trends, and career resources in a modern UI.
- **Sustainability Hub** Open-source TypeScript platform mapping sustainability initiatives across communities.
- More projects on GitHub: github.com/sedegah

Professional Experience

Founder & Project Coordinator – Code Cadence

Apr 2025 – Present | Accra, Ghana (Hybrid)

- Piloted developer-focused tech initiatives, including **Acadience**, a smart QR attendance system for academic use.
- Coordinated collaborative developer projects and community events via Code Cadence.

Student Ambassador – STEM for Development

Apr 2025 – Present | Ghana

• Promoted STEM skills and digital development through workshops and tech events.

Student Volunteer – Google Developers Group

Dec 2024 – Jan 2025

• Participated in AI/ML sessions using Anaconda, Kaggle, and Docker to develop hands-on ML capabilities.

Education

Bachelor of Science in Computer Science (Expected 2027)

University of Ghana

Publications

• Neurelic – Modular Retrieval-Augmented Generation Framework (Ready Tensor, Jul 2025)

Advanced RAG system delivering context-aware AI responses, modular architecture, semantic search, and integration with streamlit UI. Open-source under MIT License. (app.readytensor.ai, GitHub)

Certifications

- Docker Essentials: A Developer Introduction Cognitive Class, 2025
- Introduction to IoT and Digital Transformation Cisco Networking Academy, 2025
- CS120: Bitcoin for Developers Saylor Academy, 2025
- CSS (Basics) HackerRank, 2025
- Electronic Arts Software Engineering Job Simulation Forage, 2025
- Java Fundamentals *HackerRank*, 2025
- Operating Systems Fundamentals Cisco Networking Academy, 2025
- Principles of Agentic Code Development DeepLearning.AI, 2025
- Ollama: Create Local LLM Applications *Udemy*, 2025
- Python for Data Science and AI Development IBM SkillsBuild, 2024

Achievements

- Published a full-stack AI framework (**Neurelic**) with semantic search and LLM integration.
- Developed and deployed **15+ cross-domain tools**, from RAG systems to CLI utilities.
- Proficient in **functional programming** across Haskell, Prolog, and Zig.
- Earned GitHub recognitions: Pull Shark, YOLO, Quickdraw.

References

Available upon request