Sedem Quame Amekpewu

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Results-driven Backend and AI Engineer with over 5 years of experience in designing and deploying enterprise-grade applications in FinTech, AI, and DevOps sectors. Expertise in Python, Java, Node.js, and C#, with a proven track record of building scalable APIs, automation pipelines, and machine learning systems. Recognized for enhancing system reliability, significantly reducing debugging time, and boosting developer efficiency. Committed to delivering high-quality software solutions through effective teamwork and adaptability, with a strong focus on coding excellence and system architecture optimization.

SKILLS

- Languages: Python, Java, Go, C++, JavaScript, C#, SQL, Bash,

- Frameworks: FastAPI, Flask, Node.js, Spring Boot, React, Unity, PyTorch

- Cloud & DevOps: AWS, Docker, Jenkins, Kubernetes, Heroku, GitHub Actions, Bitbucket Pipelines

- Databases: PostgreSQL, MySQL, MongoDB

- Architecture: REST APIs, Microservices, Event-Driven Systems, CI/CD, Observability

- Tools: Grafana, SonarQube, OpenAI API, ETL Pipelines, Unity Engine

EDUCATION

WEBSITES, PORTFOLIOS, PROFILES

- linkedin.com/in/sedemquame
- github.com/sedemquame

WORK HISTORY

AI ENGINEER

Turing | Remote   JUN 2024 - OCT 2025

- Fine-tuned and deployed LLMs using RLHF, SFT, and RAG for clients like Mistral and Apple.
- Designed automated data pipelines using Python and SQL, improving efficiency by 30%.
- Integrated AI-powered reasoning APIs for enterprise workflow automation.
- Cloned various API endpoints from various service providers, such as Slack, Amazon, Jira, and PayPal, to create realistic AI inference using FastAPI.
- Generated realistic data of various service providers, and imported it into Reinforcement Learning (RL Gym) to be used by various users.
- Configured MCP servers to allow AI agents to select the appropriate endpoint to fulfill users' requests.
- Lead a team of five engineers, and frequently engage in extensive code reviews and code quality checks.

SOFTWARE ENGINEER

Fido | Accra, GH   JAN 2023 - JAN 2025

- Automated SMS and USSD workflows using Python, AWS EC2, and S3, improving uptime to 99.9%.
- Implemented CRM integrations for targeted customer engagement, improving reporting accuracy by 40%.
- Developed the company website for Ghana (https://gh.fido.money) and Uganda (https://ug.fido.money), along with the underlying infrastructure.
- Built various internal-facing tools to automate and assist sales, marketing, back office, and finance operations

JAN 2020

Bachelor of Science
Computer
Engineering | University of
Ghana | Accra, Ghana

- Optimized existing applications by identifying bottlenecks and implementing performance improvements.
- Refactored various legacy codebase for improved maintainability, paving the way for easier future updates, and conducted thorough code reviews to identify potential areas for improvement.

DEVOPS & SOFTWARE ENGINEER

Morgan Stanley / Turntabl | Accra, GH   SEP 2020 - JAN 2023

- Engineered CI/CD pipelines and Bitbucket hygiene plugins, improving code quality by 30%.
- Built automated error classification tools reducing debugging time by 50%.
- Created observability dashboards for 200+ developers, improving response time for critical systems.
- Contract

FOUNDER & LEAD ENGINEER

Bet Tipster | Remote   SEP 2023 - MAY 2024

• Architected and built a microservices-based trading signals platform using Python, React, AWS, and Heroku; designed and managed relational and NoSQL database schemas, ensuring data integrity, scalability, and automated backup/restore procedures.

• Implemented end-to-end security, including JWT-based authentication, encryption at rest and in transit, and role-based access controls; integrated escrow management to protect user funds, and conducted thorough security audits.

• Achieved 98% uptime by designing a resilient system architecture with fault-tolerant services, auto-scaling, and robust event-driven messaging patterns.

• Led the development of responsive web and mobile interfaces, and introduced comprehensive testing practices—unit, integration, and load tests—to verify functionality, performance, and reliability across the platform.

FOUNDER & LEAD ENGINEER

NewsFoldr | Remote   NOV 2021 - FEB 2024

- I created highly specialized scrapers to scrape news from various channels, built robust, fault-tolerant scrapers with IP rotation, CAPTCHA solving, authentication handling, rate limiting, DOM parsing, and data normalization to reliably ingest data from diverse sources.
- I designed and built a responsive front-end and mobile application, and handled integrations for the app.
- Developed an AI-driven news platform using microservices, AWS Lambda, and LLMs.
- Processed over 10,000 articles daily with optimized caching and event-driven architecture, reducing latency by 35%.

- Delivered a responsive web and mobile app that seamlessly integrated with the platform's APIs, ensuring a polished user experience, and streamlined data flow.

FULL STACK DEVELOPER

Renmo, Inc. | Accra, GH   APR 2022 - AUG 2022

- Developed the frontend application using React and integrated APIs for a rent payment platform serving over 10,000 users.
- Enhanced UI accessibility and responsiveness, improving user satisfaction.

GAME DEVELOPER

Maaze | Remote   JAN 2021 - NOV 2021

- Developed a 3D puzzle game (1K+ downloads) using Unity and C#, incorporating procedural level generation and real-time difficulty adjustments to keep gameplay fresh and challenging.
- Implemented AI-driven enemies and NPCs using pathfinding, state machines, and behavior trees, so characters react dynamically to player actions and adapt to skill level.
- Created and optimized 3D models, textures, animations, and other assets across PC and mobile platforms, refining performance with techniques like object pooling, Level of Detail (LOD) systems, and asynchronous loading.
- Enhanced AI-enabled NPCs with advanced features, such as context-sensitive interactions, quest management, and environment awareness, contribute to a smoother, more engaging player experience.

WEB TECHNOLOGY TUTOR

Developers in Vogue | Accra, GH   JAN 2020 - AUG 2020

- I taught over 50 women web development and Python for data science, increasing job placement by 70%.
- Facilitated hands-on workshops using modern development tools and software frameworks.
- Implemented innovative teaching strategies to engage diverse learning styles effectively.
- Led professional development sessions for staff on emerging technologies and instructional methods.
- Contributed to a positive learning environment by maintaining an approachable demeanor and displaying enthusiasm for technology education.
- Increased student proficiency in technology by providing hands-on demonstrations and guided practice with various software applications.

FULL STACK DEVELOPER

AwayBus | Remote   MAR 2019 - DEC 2019

- Developed an MVP for an intercity ride-sharing platform with booking and seat selection using React and REST APIs. APIs.
- Implemented RESTful APIs to integrate front-end and back-end functionalities seamlessly.
- Used NodeJS, ORM and SQL/No-SQL to develop and manage databases.
- Enhanced user experience by developing and implementing a responsive front-end interface for web applications.
- Maintained clear documentation of system architectures, workflows, and coding standards for reference by other team members.

LICENSES & CERTIFICATIONS

- Software Architecture & Technology of Large-Scale Systems — Udemy (Issued Mar 2024) Credential ID: UC-af61da2d-f12c-4dcb-96d1-7e2a5aca8163 Skills: Software Architecture, Solution Architecture

- Ultimate AWS Certified Developer Associate DVA-C02 — Udemy (Issued Jan 2024) Credential ID: UC-9b8c77a3-9a2f-41d0-811b-78319b5d20b8 Skills: AWS Development, Cloud Computing, CI/CD