

SEGUN EBENEZER KASIM

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Agentic AI Developer | LLM Engineer | Python & Cloud-Native Specialist

PROFESSIONAL SUMMARY

Experienced software engineer with 5+ years designing and deploying intelligent backend systems and agentic AI solutions. Proven track record building LLM-powered assistants, autonomous workflow agents, and RAG pipelines using LangChain, Spring AI, and OpenAI APIs. Deep expertise in Python, cloud-native architectures (AWS), and API orchestration. Passionate about developing autonomous AI agents that plan, execute, and optimize complex multi-step tasks. Strong communicator with experience mentoring teams and delivering production-ready AI infrastructure.

CORE COMPETENCIES

Languages: Python, JavaScript, Java, C#

Agentic AI & LLMs: LangChain, CrewAI, OpenAI API, Spring AI, RAG Pipelines, Autonomous Task Planning, Prompt Engineering, Tool Calling, Self-Reflective Agent Architectures

Vector Databases: PgVector, ChromaDB, Weaviate, Pinecone

Cloud & DevOps: AWS (Lambda, ECS, RDS, S3), Azure, Docker, GitHub Actions, Jenkins, CI/CD Pipelines

Frameworks & Tools: React.js, Spring Boot, FastAPI, Flask, Kafka, RabbitMQ, Redis, PostgreSQL, MongoDB

API Integration: RESTful APIs, Webhook Orchestration, Third-Party Platform Integrations, OAuth 2.0

PROFESSIONAL EXPERIENCE

Paysure Technologies — Lead Developer & AI Developer *Jul 2022 – Present*

- Designed and built an LLM-based DevOps Assistant using Spring AI, OpenAI, and React, enabling autonomous infrastructure diagnostics, CI/CD task automation, and intelligent workflow orchestration.
- Integrated intelligent agents into backend services with memory, reasoning loops, and feedback mechanisms to improve system performance over time.
- Implemented automation pipelines connecting CRM systems, analytics dashboards, and data sources to agentic workflows for real-time decision-making.
- Migrated mission-critical fintech services to AWS ECS and Lambda, improving performance and reducing cloud spend by 25%.
- Administered secure PostgreSQL, Redis, and Weaviate vector database instances for semantic search and user query handling in RAG pipelines.
- Established cloud observability (Grafana/Prometheus) with robust logging, monitoring, and access controls for safe, efficient AI system operation.
- Led hiring and mentorship for engineering teams, conducting 20+ technical interviews across backend and DevOps roles.

Pullus Africa — Backend Developer *Aug 2021 – Jul 2022*

- Developed scalable inventory management and forecasting applications using Spring Boot and Python, integrating predictive analytics for data-driven decision-making.

- Optimized database queries and implemented geolocation intelligence APIs for logistics automation and demand forecasting.
- Ensured system stability and uptime through monitoring strategies, caching mechanisms, and automated alerting pipelines.

Software Developer — Freelance & Early Roles 2020 – 2021

- Built custom backend solutions and automation tools using Python, .NET Core, and Node.js for startups and small businesses.
- Created admin dashboards and reporting tools using React.js and Angular with real-time data visualization.
- Developed inventory tracking systems with forecasting capabilities, driving data-driven decisions and improving operational efficiency.

KEY PROJECTS & ACHIEVEMENTS

- **AI DevOps Assistant:** Built and deployed an autonomous AI assistant with LLM orchestration, tool calling, and AWS service integration for infrastructure automation and multi-step task execution.
- **Multi-Channel Payment Middleware:** Architected a high-throughput middleware processing thousands of daily transactions with intelligent routing and automated reconciliation.
- **GitHub Copilot Integration:** Introduced AI-assisted coding workflows across development teams, increasing team efficiency by 75%.
- **RAG Pipeline Implementation:** Designed and deployed retrieval-augmented generation systems using vector databases (Weaviate, ChromaDB) for intelligent document search and query handling.

AWARDS & RECOGNITION

- **Thinklab Hackerton Winner, Thinkathon — December, 2026**
First place winner for developing an innovative AI-powered solution that demonstrated exceptional technical execution and real-world impact. Competed against 30+ teams to deliver a production-ready prototype in 72 hours.

EDUCATION

Bachelor of Science, Computer Science — University of Ilorin, 2022

CGPA: 4.28/5.00 (Second Class Upper Division)

ADDITIONAL INFORMATION

Availability: Full-time, EST-aligned working hours

Work Authorization: Available for remote engagement globally

Communication: Strong written and verbal English communication skills (C-level proficiency)