Agyenim Boateng Barfi

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EDUCATION

- **University For Development Studies.** — Ghana
  Bachelor of Science in Computer Science; — *Sept. 2010 – August. 2014*

EXPERIENCE

- **Searchly AI** — Accra, Ghana
  Founder and Lead Engineer — *Jan 2025 - Present*
  - **AI Integration**: Developed and launched an AI-powered vector search engine for e-commerce platforms using Laravel, Redis, RabbitMQ, and Python.
  - **Vector Search**: Designed a semantic search pipeline that enables natural language queries using vector embeddings and Opensearch.
  - **Real Time Data Ingestion**: Managed real-time data ingestion and processing with distributed queues, supporting thousands of products.
  - **Ownership**: Oversaw end-to-end product development including backend, plugin, onboarding flow, and user documentation.

- **64Robots** — Remote
  Senior Software Developer — *Jan 2022 - Jan 2025*
  - **Search Optimization**: Integrated Elasticsearch to improve data retrieval accuracy and reduce query response time.
  - **API Payments**: Built and maintained secure APIs, payment systems and webhook infrastructure making the platform more reliable and cutting down failed transactions.
  - **Logistics Automation**: Integrated UPS shipping APIs to automate label generation, cutting manual effort and improving delivery efficiency.
  - **Code Quality**: Implemented code linting and automated testing pipelines, boosting code stability and contributing to safer deployments.

- **Scopic Software** — Remote
  Software Developer — *Sept 2018 - Dec 2021*
  - **Video Processing**: Designed and implemented an FFMPEG-based video transcoding service, improving video encoding speed
  - **Legacy Systems Support**: Maintained and optimized legacy applications, ensuring system uptime and resolving long-standing performance bottlenecks.

- **Kudobuzz** — Accra, Ghana
  Backend Developer — *May 2015 - Aug 2018*
  - **Product Import System**: Built a high-performance import engine for Shopify, BigCommerce, and WooCommerce that reduced product import time and improved data accuracy across millions of records.
  - **Platform Integrations**: Expanded social platform support from 2 to 6 (including Yelp, Amazon, Etsy, and Google), driving higher merchant engagement and boosting conversions.
  - **Test Automation**: Improved code stability by introducing automated tests, leading to a drop in post-release bugs and smoother product releases.

PROJECTS

- **ElasticBridge**: Open source Laravel package that streamlines Elasticsearch integration for PHP applications with a clean, developer-friendly API.
- **Searchly AI**: AI-powered platform that enables natural language product search for e-commerce stores by generating vector embeddings for smarter, more intuitive discovery.

PROGRAMMING SKILLS

- **Languages**: PHP, Python, Javascript, Typescript   **Technologies**: AWS, OpenSearch, ElasticSearch, Redis, Kafka, RabbitMq, Supervisor, React, Vue