Ekow Baah-Nyarkoh

Senior Software Engineer · Applied AI & Forward-Deployed Engineering

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SUMMARY

Senior software engineer with 9+ years building enterprise products: eSIM management software for 40+ operators at Giesecke + Devrient, a design-system-led platform redesign at Hive Streaming, and most recently an AI compliance platform (RAG, multi-agent workflows, MCP) taken from first conversation to production in six months.

TECHNICAL SKILLS

AI & agents	RAG, multi-agent workflows, tool calling, Model Context Protocol (MCP), human-in-the-loop approval, prompt engineering, groundedness and retrieval evaluation, agent tracing
Data & search	Document ingestion and chunking, embeddings, vector search, semantic retrieval, PostgreSQL
Languages & frameworks	TypeScript, Python, Angular (Signals, NgRx Signal Store), React, Next.js, Node.js, NestJS, REST / GraphQL
Platform & quality	Azure and Azure DevOps, Docker, CI/CD, Okta SSO, MSAL, Cypress, Playwright, design systems, accessibility

EXPERIENCE

Tech Lead & AI Solutions Architect · TrusTrace (contract)

Stockholm · Jul 2025 – Jan 2026

Built the platform behind One Retail Hub, a free tool letting fashion brands answer one due-diligence questionnaire for many retailers (Zalando, ABOUT YOU, ASOS, Boozt and others). A European retailer-led initiative responding to EU due-diligence rules, on TrusTrace's 10,000+ brand platform.

- Led technical discovery with customer, product and engineering stakeholders and took the product from concept to production in **six months**.
- Built RAG pipelines that ground LLM output in regulatory documents, product records and supply-chain data, cutting compliance research time by **45%**.
- Designed multi-agent workflows with MCP integration for evidence retrieval, regulatory analysis and risk detection, reducing manual review time by **40%**.
- Built the ingestion pipeline (custom parsing, semantic chunking, embeddings, vector search), improving retrieval relevance by **30%**.
- Connected agents to enterprise APIs with tool calling, state management, structured outputs and human approval steps, automating **~35%** of a manual workflow.
- Set Next.js / Angular standards: **20%** fewer defects, **30%** faster delivery.

Senior Software Engineer · Hive Streaming

Remote · Feb 2022 – Present

Enterprise video platform using peer-to-peer (WebRTC) delivery and analytics to run company-wide live events for large organizations.

- Drive the frontend architecture of the Hive Portal, the customer-facing platform for planning, running and analysing live events; modernized it on Angular Signals and NgRx Signal Store.
- Led the end-to-end redesign of the Hive Portal and created the shared design system product teams build on.
- Build across the stack on Hive's analytics and event-readiness products: NestJS and PostgreSQL services and Databricks data pipelines.
- Help shape Hive's applied-AI work, from architecture decisions to AI-assisted features for live-event readiness.
- Enterprise SSO (Okta, MSAL), tenant-isolated data access, and Azure DevOps releases with Cypress and Playwright testing.

Software Engineer · Giesecke + Devrient

Stockholm · Jun 2019 – Feb 2022

- Built enterprise B2B software for telecom operators and IoT manufacturers, serving **40+ mobile network operators** globally: the web front end of a remote eSIM and SIM profile management platform (Angular, TypeScript, NgRx), keeping state in sync with RESTful APIs.
- Built resilient, reusable interfaces across a cross-functional team; maintained a Material Design-based design system and designed Figma prototypes, helping establish a UX culture.
- Managed timelines and deliverables for one development module, turning product owners' functional requests into technical tasks.
- Wrote automated integration tests (Karma, Jasmine) for telecom interfaces and standardized Docker-based workflows.

OPEN SOURCE

Lucide Angular · Contributor & maintainer

Oct 2022 – Present

- Fixed critical bugs and reworked the architecture of the Angular bindings for the Lucide icon library; weekly downloads grew from ~200 to **9,000+**.

EDUCATION

BSc, Computer Engineering, Ghana Technology University — 2019