

Emery Muhozi

Full-Stack Software Engineer | AI Integration (MCP, LangChain, LangGraph, AWS Bedrock)

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PROFESSIONAL SUMMARY

Full-Stack Software Engineer with 9+ years building web, mobile, and AI-driven products, including 7+ years at Tapestry Inc. (Coach, Kate Spade, Stuart Weitzman) bridging engineering and analytics - building the platforms merchandising, pricing, and supply-chain teams use for daily decisions. Part of the team behind the Collection Curator MCP (Model Context Protocol) server - one of the earlier production MCP deployments inside a Fortune 500 retailer - connecting enterprise data to AI agents with LangChain, LangGraph, and AWS Bedrock. Led platform-level initiatives on a live production system: an Nx monorepo consolidation and a 185,000-line frontend modernization with zero business disruption. Shipping on GitHub for 13 years (684 PRs authored and 239 reviewed at Tapestry; 139 more outside), with sustained open-source contribution and long-maintained independent products. Former consultancy co-founder experienced in owning delivery end to end - from stakeholder requirements to production operations.

CORE SKILLS

AI Integration & Applied AI: MCP (Model Context Protocol), LangChain, LangGraph, AWS Bedrock, RAG pipelines, AI agents for analytics and automation

AI Tooling (daily drivers): Claude Code, Cursor, Google Gemini - agentic coding workflows

Languages: TypeScript, JavaScript, Python, PHP, SQL

Frontend: React.js, Next.js, Redux, Legend State, React Query (TanStack Query), D3.js, Plotly, Tailwind CSS, Ant Design, design systems and component libraries, Responsive UI/UX

Backend & APIs: Node.js, Express.js, GraphQL, REST, PostgreSQL, Prisma, Python (FastAPI, Flask, Django), PHP (Laravel)

Cloud & DevOps: AWS (Lambda, DynamoDB, Serverless Framework, Bedrock, EKS), Kubernetes, Docker, Jenkins, Microsoft Azure, SQL/NoSQL, Snowflake

Mobile: React Native (incl. native-layer work: NFC, Kotlin/Objective-C modules, CocoaPods), Fastlane CI/CD, App Store & Play Store publishing

Testing & Tooling: Nx monorepo, unit and integration testing (Vitest, Jest), Biome, GitHub Actions (web & mobile CI/CD pipelines), Travis CI, Vite

Practices: Agile (Scrum, Kanban), Secure SDLC, code review, technical documentation, mentoring, remote collaboration

WORK EXPERIENCE

Software Engineer (Contract), Analytics | Tapestry Inc. (Coach, Kate Spade, Stuart Weitzman) | New York, US - Remote
March 2019 - Present

Build Tapestry's internal analytics platforms - including Collection Curator, the assortment-planning platform used daily by merchandising, pricing, and planning teams across all three brands - and their applied-AI layer.

- Part of the team that delivered the Collection Curator MCP server - one of the earlier production MCP deployments at a Fortune 500 retailer - exposing curated product and sales data to AI agents with the same auth, role, and region guardrails as the human-facing app; personally built several of its MCP tools, alongside LangChain/LangGraph agent workflows and AWS Bedrock integrations keeping models inside Tapestry's AWS boundary.
- Led a frontend modernization spanning 2,262 files with a net reduction of 185,000 lines of code - complete Redux to Legend State migration, elimination of all page-level React Contexts, major dependency upgrades (AWS Amplify, Sentry, react-router, Storybook), and bundle-size tree-shaking - on a live production system with zero business disruption.
- Migrated frontend (React), backend (Node/Express, GraphQL, Prisma), and Python services from standalone repositories into a unified Nx monorepo (~2,500 TypeScript files) with CI quality gates, enabling atomic full-stack changes and cutting codebase health debt - health score raised from 65/C to 90/A, 50+ circular dependencies eliminated, duplication cut from 11.7% to 3.9%, 13K+ lines of dead code removed.
- Delivered real-time collaborative editing over GraphQL subscriptions with a WebSocket resilience layer (keep-alive, retry, auto re-subscription, offline recovery).
- Built streaming Excel/PowerPoint export services (Python FastAPI through Node) with real-time progress, solving ALB timeout and socket-tuning edge cases on large merchandising exports.
- Hardened the platform for enterprise production: remediated 31 dependency vulnerabilities, strict CSP with SHA-256 script hashes, delete-mutation auth guards, Cognito SSO ecosystem, and Postgres-backed fuzzy search - plus a B2B integration pushing collections to NuOrder with door assortments, tier mapping, and season handling.
- Long product arc across the platform's history: data-visualization foundations on Product Central (custom Plotly charts, an API mock server for frontend-first development), a CRA-to-Vite build migration, and the 360 Insights reporting MVP with report views, sharing, and a chat view.
- Authored 684 pull requests (624 merged) and reviewed 239 across 14 repositories.

- Maintained a continuously renewed US enterprise contract for 7+ years as a fully remote engineer - sustained trust across time zones, teams, and re-orgs.

Mobile Application Developer | Andela (Andela Meals product) | Nairobi, Kenya

December 2019 - March 2020

- Built an NFC-based meals check-in app with React Native and Node.js/Express (15 merged PRs), shipping across iOS and Android - NFC card event handling, offline/connectivity detection, and CocoaPods native dependency work.
- Owned mobile CI/CD early: automated Fastlane release builds with environment-file generation, uploaded to Slack for the team - plus onboarding and mentoring new engineers.

Software Engineer (Web3) | Syndicate - DeFi/DAO startup | California, US - Remote

August 2021 - December 2021 (part-time)

- Shipped user-facing Web3 features with TypeScript, Next.js, and Redux; integrated smart contracts with frontends in collaboration with Solidity engineers to enable on-chain investment clubs and decentralized governance.

Frontend Engineer | Aerotage Design Group Inc. | South Carolina, US - Remote

June 2019 - October 2019 (freelance)

- Built reusable React + TypeScript components and design-system foundations for a SaaS platform, ensuring consistent, performant experiences across desktop and mobile web.

Software Developer (Apprentice) | OpenMRS - Open Concept Lab, via Andela | Nairobi, Kenya

August 2018 - November 2018

- Sustained open-source contribution to the OpenMRS Open Concept Lab client - 17 PRs (16 merged) on a healthcare-terminology platform (Python/Django, React) supporting health systems in developing countries.
- Delivered pagination, a responsive rework of the Dictionary Overview, concept-search rework, create-mapping functionality, and test-mocking improvements - all Jira-tracked, with secure-SDLC practices.

Full-Stack Developer | Data Systems Ltd | Kigali, Rwanda

July 2017 - April 2018

- Lead developer on an e-commerce platform for locally made products across East and West Africa; integrated Mastercard online payments via Bank of Kigali in compliance with financial security standards (PHP/Laravel, Azure).

Co-Founder / Full-Stack Developer | Regeza - web & mobile consultancy | Kigali, Rwanda

February 2015 - July 2017

- Co-founded and ran a digital consultancy serving SMEs across East Africa - won the work, scoped it, delivered it (Laravel, WordPress, React Native) - managing client relationships, timelines, and a remote team of developers and designers.

INDEPENDENT PRODUCTS & SIDE WORK

- **Bohoka** (2022 - present) - mental-health/therapy platform co-founded with friends and maintained for 3+ years: React Native app carried through two major RN upgrades on a live product, Laravel API with Airtable-backed therapist data and a GitHub Actions deploy pipeline, marketing site, and TypeScript CMS.
- **Ntumira** (2026) - mobile/full-stack product in active development: TypeScript with Kotlin native modules and PostgreSQL.
- **Nihe / RW** - open dataset and explorer for Rwanda's administrative hierarchy; most-starred data project in a recurring civic-data thread.

EDUCATION & PROFESSIONAL TRAINING

Software Engineering Fellowship | Andela | Nairobi, Kenya

May 2018 - November 2019

- Selected from a competitive process for a paid full-time fellowship; built production projects in Python (Flask, Django) and JavaScript (React, React Native); placed with Tapestry Inc. in March 2019.

BSc Computer Science - Goldsmiths, University of London (*attended; degree not conferred*)

BSc Computer & Software Engineering - University of Rwanda (*attended; degree not conferred*)

National Advanced Certificate of Technical Secondary Education (A2), Computer Electronics - Ecole Technique Saint Kizito Save, Rwanda (2014)

PUBLICATIONS & OPEN SOURCE

- Open-source contributor, OpenMRS ecosystem (Open Concept Lab) - 17 PRs (16 merged); smaller contributions to world-class/REPL and react-native-config documentation.
- "React Native Image Upload to Firebase Cloud Storage - iOS" - technical article.
- "How to Generate Presigned URLs for S3 Private Bucket Files via a Python Lambda Function" - technical article.

LANGUAGES

English - Fluent | Kinyarwanda - Native | French - Elementary