

# Emery Muhozi - Full-Stack Software Engineer

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Full-Stack Software Engineer with 9+ years of experience building scalable web, mobile, and AI-driven products. Specialized in React, Next.js, Node.js, TypeScript, AWS, and applied AI frameworks (MCP, LangChain, LangGraph). Proven track record delivering e-commerce, SaaS, and Web3 solutions for global brands like Tapestry Inc., startups, and open-source projects. Adept at modernizing legacy systems, leading cross-functional teams, and delivering products that drive measurable business outcomes.

## SKILLS

**Frontend Development:** React.js, Next.js, Redux, React Query, Ant Design, Bootstrap, Tailwind CSS, HTML5, CSS3, Responsive UI/UX, D3.js

**Mobile Development:** React Native, Flutter, Cross-Platform Development, Fastlane (CI/CD), App Store & Play Store Publishing

**Backend Development:** Node.js, Express.js, REST APIs, GraphQL, PHP (Laravel), Python (Flask, Django)

**Databases & Cloud:** AWS (Serverless, DynamoDB, Lambda, Bedrock), Microsoft Azure, SQL, NoSQL

**AI & Data Tools:** LangChain, LangGraph, MCP, Applied AI for Analytics & Automation

**Web3 & Blockchain:** Solidity Integration, Smart Contract Development, DAO Tools, DeFi Applications

**Testing & Tooling:** Vitest, Jest, Biome, GitHub Actions, Fastlane, Travis CI

**Software Practices:** Agile (Scrum, Kanban), Secure SDLC, Code Reviews, Technical Documentation, Remote Collaboration

**Programming Languages:** TypeScript, JavaScript, Python, PHP, SQL

## WORK EXPERIENCE

### Full-stack Software Engineering Contractor, Analytics - Tapestry Inc, New York - US

March 2019 – Present

Built internal platforms and advanced analytics with applied AI tools to deliver real-time insights to distributed merchandising teams and drive data-informed decisions across e-commerce, marketing, pricing, and supply chain.

- Delivered interactive dashboards and real-time web applications that enabled global merchandising teams to react quickly to inventory, pricing, and sales trends.
- Partnered with data scientists, analysts, and business stakeholders to surface actionable insights through scalable, user-friendly platforms.
- Designed and implemented full-stack solutions with TypeScript, React.js (Redux, React Query), Express.js, and Node.js, ensuring performance, maintainability, and seamless user experiences.
- Led modernization of the codebase, migrating from Create React App to Vite (faster builds), Jest to Vitest (faster tests), ESLint to Biome (consistent standards), and refactoring legacy React components to Hooks and functional patterns.
- Developed backend APIs and data services with TypeScript, Express.js, GraphQL, AWS Serverless Framework, and DynamoDB to support realtime analytics delivery.
- Collaborated with the team to introduce applied AI tools (MCP, LangChain, LangGraph), powering advanced analytics that accelerated decision-making across merchandising, marketing, pricing, and supply chain.
- Contributed to Agile product delivery, participating in cycle planning, technical design reviews, and cross-functional collaboration.

**Skills & Tools:** TypeScript, React.js, Redux, React Query, Styled Components, Node.js, Express.js, Python, GraphQL, DynamoDB, AWS (Serverless Framework), Vite, Vitest, Biome, MCP, LangChain, LangGraph

### Web3 Frontend Engineer – Part-time – Syndicate (Web3 & Blockchain Startup), California - US

Aug 2021 – Dec 2021

Contributed to building decentralized finance (DeFi) and DAO tooling products that empower communities and organizations to launch and manage on-chain investment clubs and projects.

- Developed new features and user-facing products with TypeScript, Next.js, and Redux, delivering performant and intuitive Web3 experiences.
- Integrated blockchain functionality by collaborating with Solidity developers to connect smart contracts with frontend applications, enabling decentralized governance and fund management.
- Worked closely with product managers and designers to ship polished, user-friendly tools that lowered barriers to Web3 and DAO adoption.
- Gained hands-on experience on blockchain development workflows while contributing in a collaborative, cross-functional startup environment.

**Skills & Tools:** TypeScript, React, Next.js, Redux, Solidity, Web3.js, Tailwind

### Frontend Engineer – Freelance – Aerotage Design Group Inc, South Carolina - US

Jun 2019 – Oct 2019

Contributed to the development of Aerotage's SaaS platform by implementing responsive, scalable web interfaces for both desktop and mobile users.

- Developed ReactJS components with TypeScript and Ant Design, translating product designs into polished, user-friendly features for a SaaS.
- Collaborated with virtual, cross-functional teams to ensure consistency across mobile and desktop web experiences.
- Built reusable UI components and design systems to accelerate development and maintain a cohesive look and feel across the application.
- Optimized performance and responsiveness to deliver a smooth user experience across devices and browsers.

**Skills & Tools:** TypeScript, React.js, Ant Design, REST APIs

Contributed to the Open Concept Lab (OCL), an open-source platform within the OpenMRS ecosystem focused on collaborative terminology and indicator management to improve healthcare delivery in developing countries.

- Collaborated with project leaders and stakeholders to design and implement software solutions aligned with healthcare data standards and organizational objectives.
- Developed and supported custom solutions for the OCL platform, including workflows and web services for terminology and dictionary harmonization.
- Applied software engineering best practices across the full development lifecycle: requirements gathering, design, implementation, debugging, testing, and deployment.
- Ensured secure coding practices and adherence to open-source quality standards, improving the reliability of medical data infrastructure.
- Worked independently under general guidance to solve complex technical challenges, contributing imaginative and practical solutions to support large-scale healthcare implementations.

**Skills & Tools:** Python (Django, Flask), JavaScript (ReactJS), REST APIs, Git

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**Full Stack Software Developer, Datasystems Ltd, Kigali - Rwanda**

**Jul 2017 – Apr 2018**

Led the development of an e-commerce platform connecting local artisans and businesses to a wider market across East and West Africa.

- Partnered with stakeholders and end users to translate business requirements into technical specifications that aligned with operational goals.
- Designed, built, and maintained full-stack web applications that streamlined product listings, order management, and customer experience.
- Integrated Mastercard online payments via Bank of Kigali, delivering secure, reliable transactions in compliance with financial and security standards.
- Implemented clean, scalable, and testable code, with robust testing, debugging, and peer reviews to ensure high-quality releases.
- Planned technical architecture and deployment workflows on Microsoft Azure, ensuring system reliability and smooth product launches.

**Skills & Tools:** PHP (Laravel), JavaScript (jQuery), Bootstrap, HTML/CSS, Microsoft Azure, Mastercard Payment Gateway (Bank of Kigali)

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**Freelance Consultant / Co-Founder – Web & Mobile Solutions - Self Employed**

**Feb 2015 – July 2017**

Built and managed a boutique digital consultancy delivering custom web and mobile solutions for SMEs across East Africa, with a focus on business process automation and online brand presence.

- Partnered with SMEs to analyze business needs and design end-to-end digital solutions, including online car rental platforms, media websites, and custom CMS tools.
- Led the full software delivery lifecycle — from requirements gathering and UX design to development, testing, deployment, and post-launch support.
- Delivered responsive, high-performing web applications using PHP (Laravel), WordPress, Bootstrap, and jQuery.
- Designed and implemented cross-platform mobile app features using React Native, improving accessibility and reducing development costs.
- Advised clients on digital marketing and social media strategies, helping businesses strengthen brand visibility and customer engagement.
- Managed project timelines, client communications, and a remote team of developers and designers, ensuring successful and timely delivery.

**Skills & Tools:** Laravel, React Native, Flutter, WordPress, jQuery, Bootstrap, HTML/CSS, Digital Marketing, Social Media Strategy, Agile Team Management

## EDUCATION & PROFESSIONAL TRAINING

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**Software Engineer - Andela Fellowship Program**

**Nairobi, Kenya - May 2018 – Nov 2019**

- Selected from a competitive bootcamp to join a paid full-time fellowship.
- Built real-world projects in Python (Flask, Django) and JavaScript (ReactJS, React Native).
- Contributed to Andela Meals app, implementing CI/CD pipelines with Fastlane + Travis CI.
- Gained strong foundations in Agile, leadership, and remote collaboration.
- Successfully placed with Tapestry Inc. in March 2019.

**Tools & Skills:** React Native, Flutter, Flask, Django, Python

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**BSc in Computer Science – Goldsmiths, University of London(Incomplete)**

**London, UK**

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**BSc in Computer and Software Engineering - University of Rwanda – College of Science and Technology (Incomplete)**

**Kigali, Rwanda**

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**National Advanced Certificate of Technical Secondary Education (A2) in Computer Science & Electronics A2 - Ecole Technique Saint Kizito Save**

**Rwanda**

## LANGUAGE PROFICIENCY

**English** - Fluent

**French**- Elementary

**Kinyarwanda** – Native