

Emmanuel Kumah

Junior Full-Stack Software Engineer

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EDUCATION

Junia ISEN

Master of Science in Software Engineering (Bac+5)

Lille, France

Expected Aug 2025

KNUST

Bachelor of Science in Computer Science

Kumasi, Ghana

Jan. 2021 – Aug 2023

EXPERIENCE

QA / Performance Engineer Intern

Mar 2024 – Present

Shift Technology, Paris, France

- Designed and implemented performance testing framework using **K6 (Typescript)** and **OctoPerf** for frontend and API validation
- Built reusable test scripts simulating realistic user flows, integrated into CI/CD pipelines (Git, Jenkins, Docker) for automated performance feedback
- Compared tools for suitability: K6 for custom scripting and precise metrics; OctoPerf for fast test design, reporting, and scenario reuse
- Analyzed performance trends and identified frontend bottlenecks, helping establish baseline KPIs and improve application performance by 15%

Frontend Engineer (Internship + Freelance)

Mar 2024 – Feb 2025

Kanop (Station F), Paris, France

- Built and maintained responsive, interactive UIs in **React + TypeScript**, collaborating closely with product and backend teams.
- Contributed to the QA process and implemented unit and integration testing with **Jest**, achieving 90% test coverage.
- Worked autonomously on a live production codebase, improving performance and user experience of key features.
- Used tools like **GitLab CI** and Docker for version control and deployment workflows.
- Documented front-end codebase to ensure smooth handovers and onboarding for new developers.

PROJECTS

SporeBio | Python, FastAPI, React, SQLAlchemy, Docker

visit project

- Full-stack app for managing biological samples using FastAPI, React (Vite), Docker, and SQLAlchemy with live reload and auto API docs.

Flexicoins | React, Web3, Firebase, Netlify, REST APIs

visit project

- Web3 platform enabling users to buy foreign currencies and crypto via mobile money, using Firebase Auth and public APIs.

Spatial Showdown | Java, Spring Boot, React, PostgreSQL, WebSockets, Mapbox

visit backend & frontend

- Multiplayer online quiz game with real-time gameplay using Spring Boot (backend) and React (frontend) with WebSocket support.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, Python, C#, SQL

Frontend: React, Angular, REST API integration

Backend: Node.js, Spring Boot, FastAPI, ASP.NET Core, Python

Databases: PostgreSQL, MySQL, MongoDB, Redis

Cloud & DevOps: Docker, AWS, CI/CD (GitHub, Jenkins)

Tools & Testing: Jest, Selenium, Playwright, K6, OctoPerf, JUnit, Mockito

Practices: Agile Scrum, Clean Code, Client-first mindset