

KEN KIPCHUMBA

AI / Full-stack developer | Python | React.js

Remote | Kenya

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GitHub: <https://github.com/kypchumba>

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Portfolio: <https://kypchumba.github.io>

PROFESSIONAL SUMMARY

Software Engineering graduate with hands-on experience building full-stack web applications and AI-powered systems using Python, JavaScript, React.js, Flask, FastAPI and REST APIs. Experienced in developing applications from backend APIs and data workflows through to responsive frontend interfaces, testing, debugging and deployment.

Built practical AI projects involving RAG, semantic search, embeddings, OCR, computer vision and document processing. Strong problem-solving skills with experience using Git/GitHub, SQL and NoSQL databases, API integrations and modern web development tools. Fast learner with an ownership mindset and strong interest in building practical AI products and rapidly iterating them into reliable solutions.

CORE TECHNICAL SKILLS

Programming: Python, JavaScript, SQL, HTML5, CSS3, Object-Oriented Programming.

Frontend: React.js, Tailwind CSS, Vite, Responsive web applications, Component based development.

Backend: Python, Flask, FastAPI, REST APIs, JSON, API integration, Backend services.

AI / LLM: RAG, LLM application workflows, Embeddings, AI Document Processing, OCR, Computer Vision.

Databases: MySQL, SQLite, MongoDB.

PROFESSIONAL EXPERIENCE

Freelance Software Developer & AI Technical Contributor

Remote | 2025 - Present

- Develop REST APIs, database-driven applications and structured backend workflows.
- Develop responsive frontend interfaces and integrate them with backend APIs.
- Use Git and GitHub for source-code management and maintain structured development workflows.
- Troubleshoot application, API, database and frontend/backend integration issues.
- Learn and apply new technologies based on project requirements.

SELECTED PROJECTS

KYC Identity Verification System

GitHub: https://github.com/kypchumba/KYC_verification_system

- Built an identity-verification application for collecting, processing and validating customer information.
- Implemented OCR and computer vision workflows for processing identification documents.
- Developed structured verification and validation workflows.

- Debugged and refined application functionality to improve reliability and processing workflows.

Cardnova

GitHub: <https://github.com/kypchumba/Cardnova>

Live: <https://cardnova.vercel.app>

- Developed a responsive React.js application with reusable interactive components.
- Implemented functionality for creating and generating downloadable digital card images.
- Built responsive interfaces using Tailwind CSS and Vite.
- Debugged application behaviour and refined user interactions through iterative testing.

EDUCATION

Murang'a University of Technology

Bachelor of Science in Software Engineering | 2021 – 2025

Relevant Coursework: Data Structures and Algorithms, Web Application Development, Software Engineering, Database Management Systems, Information Systems, Object-Oriented Analysis and Design, System Programming, Artificial Intelligence / Intelligent Systems, Data Analytics and Computer Networks.

ADDITIONAL STRENGTHS

- End-to-end feature development.
- AI and LLM application development.
- Rapid prototyping and MVP development.
- API design and integration.
- Debugging and software testing.
- Git/GitHub development workflows.
- Independent problem solving.
- Fast learning and technology adaptation.
- Clean and maintainable software development.