

Jennifer Chinyere

AI/ML Engineer | Backend Engineer | Full-Stack Developer

Kenya | +254 745 292 154 | jenniferchinyere674@gmail.com | [GitHub](#) | [LinkedIn](#) | [Portfolio](#) | Open to remote

TECHNICAL SKILLS

- **Languages:** Python • TypeScript • JavaScript • SQL • C++ • PHP • HTML/CSS • Bash
- **Frameworks:** FastAPI • Django • React • Next.js • Node.js • Tailwind CSS • SQLAlchemy • Pydantic
- **AI/ML:** OpenAI API • Groq Llama • LiteLLM • YOLOv8 • ChromaDB • RAGAS • Scikit-learn • PyTorch • OpenCV • Tesseract OCR • Whisper
- **Databases & Cloud:** PostgreSQL • MongoDB • Redis • AWS (EC2, S3, Lambda)
- **DevOps & Tools:** Docker • Git • GitHub Actions • CI/CD • Linux • REST APIs • Postman • Jira • Cursor • Claude Code • GitHub Copilot • Windsurf
- **Testing & Security:** Pytest • Jest • Cypress • JWT • OAuth2 • RBAC

WORK EXPERIENCE

Full-stack Software Engineer Intern Jan 2024 – Nov 2025
AkiraChix Hybrid

- Python • Django • Django REST Framework • React • Next.js • TypeScript • PostgreSQL*
- **Revamped** the entire application to a new design and refactored the codebase to adhere to best coding practices which led to **32% faster load times** and **15% reduction in memory usage**, enhancing user experience and efficiency.
 - **Collaborated** with cross-functional teams and stakeholders to design, build, and ship **scalable** full-stack applications, translating business requirements into production-ready software.

PROJECTS

MediFlow - AI Healthcare Referral Platform: [GitHub](#) | [Demo](#)

- FastAPI • PostgreSQL • React • TypeScript • Docker • AWS • OpenAI API • Pydantic • Groq Llama • Whisper • Tesseract OCR • Scikit-learn(TF-IDF, Cosine Similarity) • WebSockets*
- **Architected and built** an AI-powered healthcare referral platform using FastAPI, React, PostgreSQL, Docker, and AWS with **50+ REST APIs**.
 - Built an OCR and LLM document intelligence pipeline using Tesseract, Whisper, and Groq, **reducing referral processing** from **27 minutes to ~2 minutes**.
 - Implemented duplicate patient detection, JWT authentication, RBAC, WebSockets, and DICOM-ready storage, enabling an estimated **360 clinical hours/month** in workflow savings per clinic.

OsteoDetect - Computer Vision Platform: [GitHub](#) | [Demo](#)

- Python • FastAPI • PyTorch • YOLOv8 • OpenCV • Grad-CAM • HTML5 • CSS3 • Docker • Vercel • Railway*
- Developed an **AI fracture detection platform** using YOLOv8, FastAPI, and OpenCV with **~3-second inference**.
 - Integrated **Grad-CAM explainability** and confidence scoring, improving model interpretability and **clinician trust**.
 - Reduced radiologist review bottlenecks by an estimated **40–50 minutes per shift**.

LEADERSHIP & AWARDS

- **Founder & Community Lead – BitByBook:** Co-founded a book discussion community focused on reviewing New York Times bestsellers and facilitating engaging discussions among readers.
- **3rd Place – Kenya Real-world Innovation Challenge:** Led the KaziLink project as Project Manager, placing **3rd among 20 teams** across Kenya in the competition hosted by **Microsoft and Databricks**.

EDUCATION

Bachelor's Degree in Computer Science & Engineering Jan 2020 – Jan 2024
codeHive CGPA: 9.06/10