

Shadrack T. John

Computer Engineering Student & Full-Stack Developer

Results-driven developer specializing in scalable system architectures, API integrations, and full-stack solutions with expertise in Python, FastAPI, React, and Machine Learning.



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Dodoma, Tanzania

EDUCATION

University of Dodoma

BSc in Computer Engineering *2022 – Present — Dodoma, TZ College of Informatics*

Specializing in IT, Software Development, Machine Learning, System Engineering and Architecture.

University of Dar es Salaam

Diploma in Computer Science *2020 – 2022 — Dar es Salaam, TZ College of Information and Communication Technologies (COICT)*

ADDITIONAL INFORMATION

- **Languages:** English (Fluent), Swahili (Native)
- **Interests:** Open Source, Tech Communities, System Architecture
- **Availability:** Open to Remote and Onsite opportunities

TECHNICAL SKILLS

Programming Languages

Python • JavaScript • PHP
HTML5 • CSS3 • SQL

Backend Development

FastAPI • REST APIs
• MySQL • PostgreSQL
API Integration • Authentication

Frontend Development

React 19 • Vite • Tailwind CSS
SCSS • Chart.js

Data Science & ML

Pandas • NumPy • PyTorch
Scikit-learn • OpenCV • Model Deployment

Tools & Platforms

Git • Docker • Linux • Render
Netlify • Vercel • VS Code • Jupyter

ACHIEVEMENTS

- Deployed multiple Full-Stack and ML applications
- Open-source contributor on GitHub
- Technical mentor for junior developers

PROFESSIONAL EXPERIENCE

Azampay Tanzania

Technical Intern *July 2024 – September 2024 — Dar es Salaam, TZ*

- Integrated multiple payment gateways and third-party APIs into fintech platforms
- Collaborated on performance tuning, security enhancements, and transaction reliability
- Conducted system troubleshooting and prepared technical documentation
- Participated in agile development cycles and code review sessions

Freelance Developer

Full-Stack Engineer *2023 – Present — Remote*

- Developed custom Pharmacy Management Systems for local SMEs
- Designed and launched multiple web app platforms
- Optimized business workflows through automated reporting
- Reduced manual processing time for clients
- Provided technical support and maintenance

FEATURED PROJECTS

Sekela: University Finder Platform

React, FastAPI, Machine Learning

- Platform featuring 30+ Tanzanian universities with filtering
- ML-based recommendation system for course matching
- Interactive data visualizations with ECharts
- Reduced university research time by 60% for stu-

dents

AfyaChecker: ML Health Assistant

Python, FastAPI, Groq API, React

- Multilingual symptom checker (Swahili/English) with ML analysis
- Integrated Groq API for real-time medical information
- Designed intuitive dashboard for symptom tracking

Aurafy: Music Personality Analyzer

React, FastAPI, Spotify API

- Analyzes Spotify listening habits for personality profiles
- Secure OAuth 2.0 authentication with Spotify
- Interactive data dashboards with personalized insights

Chuodeep: Student AI Chat Assistant

Python, FastAPI, Groq API, React

- AI-powered chat tool for academic information retrieval
- Vector search implementation for efficient query processing
- Reduced query resolution time by 70% compared to manual search

CERTIFICATIONS

- **Full-Stack Development:** Self-Taught Portfolio
- **Machine Learning Specialization :** Self Taught Online Courses
- **API Development & Integration :** Project-Based