Collins Mwange

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PROFESSIONAL SUMMARY

Innovative Full-Stack AI Developer with a proven track record of architecting and scaling production-grade, AI-powered applications. As Lead Developer at UT Dallas, built an AI-powered speech-to-speech translation (S2ST) SPA software and deployed it to DigitalOcean cloud, demonstrating strong ownership, user-focused design, and startup agility. Passionate about leveraging AI to democratize access to education and career opportunities.

SKILLS

Technical Skills: Full-Stack Development • AI/ML Integration • Python • FastAPI • React • JavaScript • Node.js • DigitalOcean(Droplets) • GCP (Vertex AI, BigQuery) • CI/CD (Jenkins, GitHub Actions) • Docker • Cloud Architecture • Chatbot Development • Self-Directed Execution • Product Iteration. **Certifications**: CompTIA Security+. **Soft Skills**: Analytical Thinking, Cross-Functional Collaboration, Agile Environment Adaptability, Stakeholder Engagement

PROFESSIONAL EXPERIENCE

The University of Texas at Dallas, Richardson, TX   **May 2024 - Present**
AI Applications Developer

- Led the development of Tafsiri, an AI-powered speech-to-speech translation (S2ST) software, increasing podcast accessibility to a global audience by enabling translations into over 100 languages.
- Built and deployed full-stack application integrating NodeJS, FastAPI, React, Tailwind, PostgreSQL, and *seamlessM4T*, to deliver accurate, real-time translation and voice output.
- Developed and optimized machine learning algorithms for data classification and language processing, improving system performance by 30%.
- Collaborated with cross-functional teams to deploy AI solutions on Google Cloud Platform, utilizing Vertex AI for model management and BigQuery for data analytics.
- Implemented CI/CD pipelines using GitHub Actions, reducing deployment time by 25% and improving application reliability.

SwahiliPot Hub Foundation, Mombasa, Kenya   **Aug 2017 – Aug 2023**
Software Developer
- Enhanced app monetization strategies through in-app purchases and ads, leading to a 20% increase in client revenue across 5 different apps.
- Implemented efficient coding practices and optimized app performance, reducing app crash rates by 20% and improving load times by 10% on average.
- Created innovative and user-friendly interfaces, contributing to a 15% growth in the user base for top-performing apps within the first year of release.
- Implemented DevOps practices and network security improvements that reduced vulnerability surface by 30%.
- Spearheaded development of Python automation tools that eliminated ~15 manual hours per week.

EDUCATION

The University of Texas at Dallas   **Richardson, TX**
Master of Science in Cybersecurity, Technology, and Policy   *Aug 2023 - May 2025*
Scholarships: ISACA Digital Trust Scholarship; ISC2 Center for Cyber Safety Graduate Scholarship
Relevant Courses: Cybersecurity Analytics & Malware Analysis; Digital Forensics & Incident Mgt; Cybersecurity Policy; Legal Aspects of Cybersecurity & Ethics; Governance, Risk, & Compliance (AWS); Cognitive Psychology; Open-Source Intelligence; and Cyber Physical Systems & Critical Infrastructure (ICSs, PLCs, SCADA).

Maseno University   **Kisumu, Kenya**
Bachelor of Science in Computer Science   *Aug 2012 - Apr 2016*
Relevant Courses: Object Oriented Programming (Java); Web Application Development (PHP, HTML, CSS, JavaScript, MySQL); Principles of Operating Systems (UNIX); Data Structures & Algorithms; Computer Network Labs (CCNA), Computer Architecture, Software Project Management, Network Administration, and Data Communications.