

MERCY CHEPNGENO

Software Engineer | Scalable Solutions for Performance-Driven Teams

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Professional Profile

Full-stack engineer who **solves business-critical problems** through technology—from modernizing publishing platforms to building tender ecosystems. Proven ability to **translate domain needs** (education, procurement) into **scalable technical solutions**.

Technical Skills

- **Frontend:** React, TypeScript, JavaScript, Tailwind CSS
- **Backend:** Node.js, Python, C++
- **Publishing Tech:** CMS Development, PDF Automation, Metadata Systems
- **Tender Platforms:** Bid Management Systems, Secure Document Uploads, Real-time Updates

Key Projects

Local Care Connect | React/TypeScript | 2024–2025

- Engineered a health service platform serving 10K+ users with 35% faster service discovery
- Architected real-time API integrations and Vercel deployment pipeline

Professional Experience

Software Developer | Moran Publishers (Education Publishing) | 2023–2024

- **Challenge:** Outdated publishing workflow caused delays in textbook releases.
- **Solution:**
 - Built a React-based **CMS with version control**, enabling simultaneous multi-author collaboration
 - Automated **PDF generation pipeline** for manuscripts, reducing production time by 40%

- Designed **metadata tagging system** to streamline catalog searches for schools
- **Result:** 18% increase in site traffic and 30% faster content updates

Frontend Engineer | Bunisha Limited (Tender Startup) | 2022

- **Challenge:** Manual tender bidding processes led to missed opportunities.
- **Solution:**
 - Developed a **secure bidding portal** with React/TypeScript for real-time tender updates
 - Implemented **document verification system** (PDF/scan uploads with validation)
 - Created **bid analytics dashboard** showing historical pricing trends
- **Result:** 20% more bids processed monthly and improved vendor retention

Education

BSc Computer Science | Catholic University of Eastern Africa

- Relevant: C++ (OOP), Database Design, Technical Writing

References

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