

SOSTEN CHEPKWONY

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Portfolio: [Personal portfolio website](#)

PROFESSIONAL SUMMARY

Motivated 4th-year Software Engineering student at Zetech University with hands-on full-stack development experience, including heterogeneous database integration, real-time data processing, and AI-enhanced applications. Skilled in building scalable, secure web systems using modern technologies, optimizing performance, and delivering user-centric solutions in agile environments. Passionate about creating innovative digital platforms that drive efficiency, collaboration, and measurable impact as an emerging full-stack engineer.

EDUCATION

Bachelor of Science in Software Engineering

Zetech University, Ruiru Campus, Nairobi, Kenya

Expected Graduation: November 2026 (Currently in 4th Year)

Relevant Coursework: App Development, Database Systems, Software Design Patterns, Algorithms and Data Structures, Full-Stack Programming, Web Development.

SKILLS AND TECHNOLOGIES

Technical Skills: HTML5, CSS3, JavaScript, React.js (TypeScript), Node.js, Python, Java, MySQL, PostgreSQL, Supabase, Firebase, API Integration (RESTful), Bootstrap, Tailwind CSS

Tools & Platforms: Git, VS Code, Figma, Netlify, n8n, Zod, TanStack Query, Lucide-React

AI & Advanced: Google Gemini, OpenAI GPT models (including GPT-4o-mini), multimodal AI for image analysis and reasoning

Soft Skills: Problem-Solving, Adaptability, Team Collaboration, Time Management, Communication, Attention to Detail

Languages: English (Fluent), Swahili (Native)

PROJECTS

FundiConnect – AI-Powered Tradesperson Marketplace

Developed a scalable platform connecting Kenyan clients with verified fundis (plumbers, electricians, etc.) using AI-driven matching, trust scoring, job tracking, payments, and dispute resolution.

Technologies: React (TypeScript), Supabase (auth, realtime DB, storage), n8n (workflow orchestration), GPT-4o-mini (AI reasoning), Tailwind CSS, Lucide-React, Zod.

Outcome: Event-driven prototype supporting 100–5,000 users with automated workflows, minimizing manual intervention and enabling revenue through escrow/subscriptions.

Link: [FundiConnect - Digitize Dignity in Construction](#)

BioTracker – AI-Powered Wildlife Observation and Species Identification System

Built a citizen-science platform for automated species identification from user-uploaded photos, providing real-time analysis, confidence scores, habitat insights, and biodiversity data aggregation for Kenyan conservation.

Technologies: React (TypeScript), Supabase (PostgreSQL, auth with RLS, edge functions, storage), Google Gemini 1.5 Flash (multimodal identification), OpenAI GPT (analytics), Tailwind CSS, Zod, TanStack Query.

Outcome: Targets >90% accuracy for 50+ Kenyan mammal species, reduces processing time from hours to seconds, enhances engagement with educational feedback, and creates a scalable research database.

Link: [BioTracker - Citizen Science Biodiversity Platform](#)

Personal Portfolio Website

Responsive personal site showcasing projects with interactive elements, authentication, and real-time features.

Technologies: React.js, CSS3, JavaScript, Supabase, Netlify.

Outcome: Live, professional deployment receiving positive feedback from peers and mentors.

Link: [Personal portfolio website](#)

E-Commerce Prototype Website

Full-stack e-commerce application with user authentication, product catalog, and shopping cart functionality.

Technologies: Node.js, Express.js, MySQL, HTML/CSS/JavaScript.

Outcome: Secure prototype demonstrating data flow and mock transactions.

Link: [Hospital Website](#)

PROFESSIONAL EXPERIENCE

Web Development Intern / Freelance Developer

Independent Projects, Nairobi, Kenya

January 2023 – Present

- Designed and deployed multiple fully functional, responsive websites using modern technologies, managing the complete development lifecycle from requirements to production.
- Collaborated with clients to gather needs, prototype UI/UX, and implement cross-device designs for improved user experience.
- Integrated backend systems (databases, APIs, Firebase/Supabase realtime sync), applying security best practices for scalable, dynamic applications.
- Optimized code and performance, achieving up to 30% faster load times through efficient resource handling and testing.

- Documented codebases and deployment pipelines to support maintainability and future scaling.

ADDITIONAL INFORMATION

- **Volunteer Experience:** Contributed to open-source web projects on GitHub; mentored first-year students in coding clubs at Zetech University.

- **Interests:** Open-source contributions, competitive programming, exploring AI integration in web applications.

Last Updated: January 2026