

# JOHN FRANCIS OSANO

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## SUMMARY

### Professional Software Systems Developer

A results-driven Software Systems Developer with 5+ years of experience designing, building, and optimizing scalable software systems and backend architectures. Specialized in full-stack system development with strong expertise in RESTful API design, database architecture (PostgreSQL, MongoDB), system integration, and performance optimization. Proficient in modern backend frameworks (Node.js, Django) and frontend technologies (React, Next.js), with hands-on experience in deploying secure, high-performance applications. Experienced in version control, CI/CD workflows, and building modular, maintainable systems. Additionally skilled in Artificial Intelligence technologies including Large Language Models (LLMs), Machine Learning, neural networks, and model integration into production-grade systems.

## EDUCATION

<b>Harvard University</b> <i>Computer Science for Cybersecurity</i>	Harvard, edX March. 2026 – Present
<b>Open University of Kenya</b> <i>Bachelor of Science in Computer Science</i>	Konza City, KE Sept. 2025 – Present
<b>Harvard University</b> <i>Computer Science for Python Programming</i>	Harvard, edX May. 2025 – Jan. 2026
<b>Kenyatta University</b> <i>Bachelor of Commerce (Marketing Major)</i>	Nairobi, Kenya Aug. 2020 – May 2024
<b>Harvard University</b> <i>Computer Science for Artificial Intelligence</i>	Harvard, edX May. 2023 – Jul. 2024
<b>Harvard University</b> <i>Computer Science for Web Programming</i>	Harvard, edX Apr. 2020 – Aug 2021
<b>Chavakali High School</b> <i>Kenya Certificate of Secondary Education</i>	Vihiga, KE Dec. 2019
<b>St. Mary's Mixed Primary School</b> <i>Kenya Certificate of Primary Education</i>	Bomet, KE Dec. 2015

## EXPERIENCE

<b>Web Developer, UI/UX</b> <i>Link to the Bioafri Solns Organization Website</i>	Sept 2025 – Present Narok, Kenya
<ul style="list-style-type: none"><li>Developed and designed a modern organization website for BioAfri Solns, a sustainability-focused company specializing in waste-to-energy and odor-control biotechnology solutions.</li><li>Generated realistic AI visuals for product marketing using Leonardo AI, designed engaging social media posters, and created interesting blogs to keep site content fresh.</li><li>Crafted compelling content and metadata for improved SEO visibility, while maintaining consistent design across the site's visual ecosystem.</li></ul>	
<b>Web Developer, UI/UX</b> <i>Tripplesee Ltd</i>	Apr. 2022 – Aug 2022 Nairobi, Kenya
<ul style="list-style-type: none"><li>Led the design and development of Tripplesee's inaugural website, Tripplesee is a startup focused on renewable energy solutions</li><li>Implemented modern design principles and smooth animations for an enhanced user experience, ensuring optimal website performance.</li><li>Enhanced SEO for a No. 2 Google ranking, amplifying online visibility</li><li>I also worked on maintaining, monitoring, QA testing, and debugging of Tripplesee's website.</li></ul>	

## PROJECTS

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### **UrbanKikapu E-commerce App** | *Next.js, TypeScript, Tailwind CSS, Prisma, PostgreSQL, Stripe* Nov 2024 – Aug 2025

- Architected and developed a scalable electronics e-commerce platform serving Kenyan buyers, implementing server/client component separation, Incremental Static Regeneration (ISR), and optimized data fetching for performance and SEO.
- Designed advanced product discovery features including debounced search, dynamic filtering, brand-based grouping, category segmentation, and accessible keyboard-navigable carousels.
- Enhanced UX with GSAP-powered animations, structured semantic headings (H1–H3 hierarchy), ARIA-compliant components, and mobile-first responsive layouts.
- Integrated secure authentication, dynamic blog system, product manuals (PDF uploads), Cloudinary media management, and Stripe-based payment processing with optimized checkout flows.
- Improved Core Web Vitals and search visibility through dynamic metadata generation, Open Graph tags, structured content hierarchy, and performance-driven component optimization.

### **StoreIt Cloud Storage Platform** | *Next.js, Tailwind CSS, Appwrite* May. 2025 – Present

- Engineered a modern cloud storage platform enabling secure OTP-based authentication using Appwrite, eliminating traditional password workflows.
- Built a responsive, high-performance interface with Next.js and Tailwind CSS, delivering a sleek and intuitive user experience across devices.
- Implemented multi-format file upload and preview functionality supporting images, audio, documents, and unknown file types with structured storage handling.
- Designed a personalized user dashboard that dynamically calculates and visualizes storage consumption by category (documents, media, images, others), with 2GB default allocation per user.
- Developed secure file-sharing capabilities via email to enable seamless collaboration and content distribution.

### **Developer Portfolio V2** | *Vite, React.js, Zustand, GSAP, Tailwind CSS, Figma, Vercel* June 2023 – Present

- Engineered a macOS-inspired interactive web application featuring a custom window and slide management system built with Zustand for global state orchestration and dynamic z-index stacking.
- Implemented physics-based draggable slide panels using GSAP and the Draggable plugin, including velocity-aware dismissals, elastic snap-back animations, and backdrop interaction handling.
- Architected reusable Higher-Order Components (HOCs) to standardize modal behavior, animation lifecycle control, and component composition across the application.
- Designed the full UI system in Figma before implementation, translating high-fidelity mockups into responsive, glassmorphism-inspired layouts using Tailwind CSS.
- Optimized performance and deployment for production on Vercel, achieving an A grade in Structure and Performance on GTmetrix through bundle optimization and animation efficiency tuning.

## TECHNICAL SKILLS

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**Languages:** JavaScript, Python, C/C++ , SQL, PostgreSQL, HTML, CSS, Typescript, JSX

**Frameworks:** Next, React, Django, Flask, Node Js, Express, Shopify, Material-UI

**Developer Tools:** Git, Docker, VS Code, Copilot, Figma, Canva

**Libraries:** Next, shadcn, Vite, React, Tailwind, GSAP, Framer Motion, Node Js