

JAMES DANIEL GITHAIGA

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SUMMARY

I am a Full-Stack Engineer dedicated to turning ideas into flawless software that solves real-world business challenges. I specialize in delivering end-to-end solutions, bridging the gap between robust cloud architecture and polished, responsive user interfaces.

By leveraging a modern stack of React 19, Node.js and AWS Serverless, I architect high-performance applications that are secure, scalable and production-ready from day one. My approach focuses on clean code, API orchestration and efficient data modeling to ensure that every system I build is not only functional but optimized for growth and long-term reliability.

SKILLS

Frontend Architecture: React.js (v19), JavaScript (ES6+), TypeScript, Vite, Tailwind CSS, Framer Motion.

Backend & Integration: Node.js, Express.js, Python/Django, RESTful APIs (Axios).

State & Database: Zustand, Redux Toolkit, Context API, MongoDB, MySQL.

DevOps & Tools: Git/GitHub, ESLint, PostCSS, Chrome DevTools, Postman (API Testing).

EDUCATION

Power Learn Project (PLP)

Certificate: Python and Database Development

Nairobi, Kenya

Graduation Date: Dec 2024

KCA UNIVERSITY

Bachelor of Science: Software Development

Nairobi, Kenya(Currently)

Graduation Date: July 2026

EXPERIENCE

Ministry Of Information, Communication and The Digital Economy (MOICDE)

Attachment

April 2023 - August 2023

- End-to-End Development: Developed a web-based IT Support Ticketing System, creating a seamless integration between a responsive frontend and a secure database backend.
- Server-Side Logic: Implemented Role-Based Access Control (RBAC) and secure authentication workflows, resulting in improved collaboration for interdepartmental support operations.
- Problem Solving: Troubleshoot and resolve critical logic bottlenecks using browser debugging tools, ensuring 99.9% uptime for the service desk module.
- Collaboration: Worked closely with stakeholders to translate complex requirements into a sophisticated, dark-mode-supported user interface.

PROJECTS

ETICKETING SYSTEM

[GITHUB](#)

Engineered a full-stack IT Support Ticketing System using PHP, MySQL, JavaScript and Bootstrap.

- Database Tier Design: Engineered a robust MySQL backend utilizing prepared statements and optimized schemas to ensure secure and efficient data retrieval.
- Legacy Modernization: Developed a PHP-based ticketing engine that bridges the gap between traditional government infrastructure and modern web standards.
- Feature Integration: Integrated interactive UI components and high-accessibility features (e.g., Dark Mode) into a traditional environment to improve the end-user experience.
- Security Engineering: Implemented industry-standard authentication protocols and password hashing to protect sensitive institutional data.

FRANATECH

[GITHUB](#)

Developed a mobile-first, responsive interface using HTML5, CSS3 and Bootstrap, specifically designed to enhance digital agency workflows.

- Performance Optimization: Achieved 90+ scores on Google Lighthouse by optimizing asset delivery and ensuring sub-2-second loading speeds across all devices.
- Interactive Design: Enhanced user engagement by integrating Framer Motion for fluid animations, while maintaining strict cross-browser compatibility.

HANSIMES

[GITHUB](#)

Developed a Django-based hospital management system to streamline clinic operations, patient communication and appointment handling.

- Backend Architecture: Engineered a robust Python/Django platform to centralize clinic operations, patient records, and appointment scheduling.
- Data Integrity & Modeling: Designed secure database structures to handle sensitive medical information, ensuring high-performance retrieval and storage.
- Security Orchestration: Implemented rigorous server-side validation and encrypted authentication protocols to maintain 100% data privacy and authorization integrity.

SOLEASE

[ONGOING](#)

Designing a high-performance MERN-based Ticketing System to automate IT support workflows and reduce resolution turnaround times.

- Architected a production-ready MERN-based ticketing system with role-based dashboards (Client, Reviewer, Manager) to automate IT support workflows and reduce resolution turnaround times.
- Frontend Engineering: Built a responsive React 19 application with Zustand state management, featuring real-time analytics dashboards using Recharts and MUI X-Charts, dark/light theme support and modern UI components (Radix UI, DaisyUI, Framer Motion).
- Backend Development: Designed a scalable Node.js/Express 5 RESTful API with MongoDB/Mongoose, implementing JWT authentication with HTTP-only cookies, email verification workflows and automated notifications via Nodemailer
- Security Implementation: Implemented bcrypt password hashing, CORS protection, input validation, protected routes with middleware and role-based access control (RBAC) for secure multi-tenant operations.
- Advanced Features: Integrated file upload/download system (Multer), threaded comment system, advanced filtering/search capabilities, CSV data export, client feedback tracking and rate limiting with Upstash Redis.

- Data Orchestration: Configured Axios for low-latency API communication, ensuring seamless synchronization between client-side UI and server-side data with comprehensive error handling.

GREATWALL

ONGOING

I am currently developing *Greatwall sentinel hub*, a decentralized energy management protocol designed to modernize the grid through blockchain-verified infrastructure and real-time AI insights

- High-Fidelity Frontend Engineering: Architected a production-ready UI using React 19 and Tailwind CSS, featuring custom-engineered components including an ultra-minimalist "tinted-glass" mobile navigation system with backdrop blur effects, responsive layouts across 10+ pages and comprehensive routing architecture using React Router 7.
- Advanced UX/UI Implementation: Leveraged Headless UI and Lucide React to build accessible, high-performance interface elements with Framer Motion animations (page transitions, scroll-triggered effects, stagger animations, hover micro-interactions), ensuring seamless interaction across decentralized energy nodes.
- State Management and Performance: Implemented global state management using React Context API with localStorage persistence for dark mode preferences and system preference detection. Optimized performance through efficient animation rendering, code splitting strategies and Vite build optimization.
- Form Integration and API Connectivity: Integrated EmailJS for newsletter subscriptions and Web3Forms API for contact forms with custom toast notifications, error handling, and loading states.
- Secure Web3 Authentication: Designed and implemented wallet connection UI components and authentication flow preparation, creating the foundation for blockchain wallet connectivity to facilitate secure user identity management and on-chain energy data verification for the Sentinel Dashboard

SPARKLES

DEMO ILLUSTRATION CLIENT

Built a modern, responsive web experience for a premium hospitality supplies brand

- Built a responsive hospitality web app with React 19, TypeScript, Tailwind CSS 4, delivering a modern, mobile-first UI for product discovery and brand presentation.
- Implemented SPA client-side routing using React Router v7, creating fast page transitions and improving navigation flow across key pages.
- Added UX enhancements like custom ScrollToTop behavior, ensuring smooth navigation and consistent page positioning after route changes.
- Designed reusable, visually consistent UI sections with Lucide React icons and CSS animations to improve clarity, interaction quality, and overall frontend polish.