
Software Engineer Portfolio

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Profile

Innovative and results-driven Software Engineer with expertise in full-stack web application development, mobile app creation, and enterprise infrastructure design. Skilled in Laravel, Vue.js, React, Java, Flutter, and MySQL, with proven ability to take a project from concept through design, development, deployment, and ongoing maintenance. Strong background in server administration, network design, and cloud services management (AWS, Microsoft Azure).

Key Web Applications – Better Globe Forestry Ltd

All applications use MySQL for data management and are hosted at <https://betterglobeforestry.co.ke/>.

1. Job Card System

- Built to streamline internal job assignments and tracking.
- Features: task creation, assignment, status tracking, and reporting.
- Impact: reduced manual reporting time and improved task accountability.

2. IPR System (Internal Purchase Requisition Form)

- Manages Internal Purchase Requisition documentation and approvals.
- Includes secure file storage, role-based access control, and audit logs.

3. Corrective Action Report System

- Tracks issues, corrective measures, and verification steps for compliance.
- Used in operational and quality control departments.

4. Document Control System

- **Centralized repository for company documents.**
- **Version control, approval workflows, and access restrictions.**

5. Employee Portal

- **Allows staff to view payslips, company policies, and HR notices.**
- **Integrated with existing employee database for authentication.**

6. Sales Page & Miti Magazines

- **Online marketplace for books and wood products.**
- **E-commerce features with secure checkout.**

7. Newsletter System

- **Upload and distribute newsletters internally and externally.**
- **Pagination view, archives, and subscription management.**

8. Ticketing App

- **Internal IT support ticketing system.**
- **Tracks issues from reporting to resolution with status updates.**

9. Training App

- **E-learning portal for internal staff training and skill development.**
- **Gets a certificate after the training**

10. Communications App

- **Internal messaging system to streamline inter-department communication.**

11. Blog App (*WordPress*)

- **Designed and maintained corporate blog for company updates and news.**

Mobile Applications

Smart Inventory App (Java + Flutter/Dart)

- **Android app to manage inventory across branches.**
- **Real-time stock tracking with synchronization to MySQL backend.**

Infrastructure & Network Projects

- **Server & Network Setup:** Built a secure and reliable network infrastructure connecting headquarters in Nairobi (Kileleshwa) with branches in Uganda (Dokolo), 7 Forks, Kiambere, and Nyongoro.
- **Network Maintenance:** Managed LAN/WAN, configured routers, firewalls, and switches to ensure stable connectivity.
- **AWS Server Administration:** Maintained AWS cloud servers for hosting applications and email services.
- **Email Management:** Managed corporate email accounts, including troubleshooting, creation, and policy enforcement.

Technical Skills

- **Programming:** Laravel, Blade, Vue.js, React, Node.js, Java, Flutter/Dart, Python, HTML5, CSS3, JavaScript, PHP, SQL/MySQL.
- **Frontend:** React.js, Vue.js, HTML5, CSS3, TailwindCSS, JavaScript (ES6+), TypeScript
- **Backend:** Node.js, Laravel, Express.js, PHP, Python, REST APIs, GraphQL
- **Databases:** MySQL, PostgreSQL, MongoDB, SQL Server
- **Tools & Platforms:** Git, GitHub, Jira, Docker, AWS, Azure, cPanel, WordPress
- **Infrastructure:** Networking (LAN/WAN), AWS, Microsoft Azure, Server Administration.
- **Testing:** PHPUnit, Pest, Jest, Cypress

GitHub Projects

All code samples and personal projects are available at:

<https://github.com/edwin659898?tab=repositories>