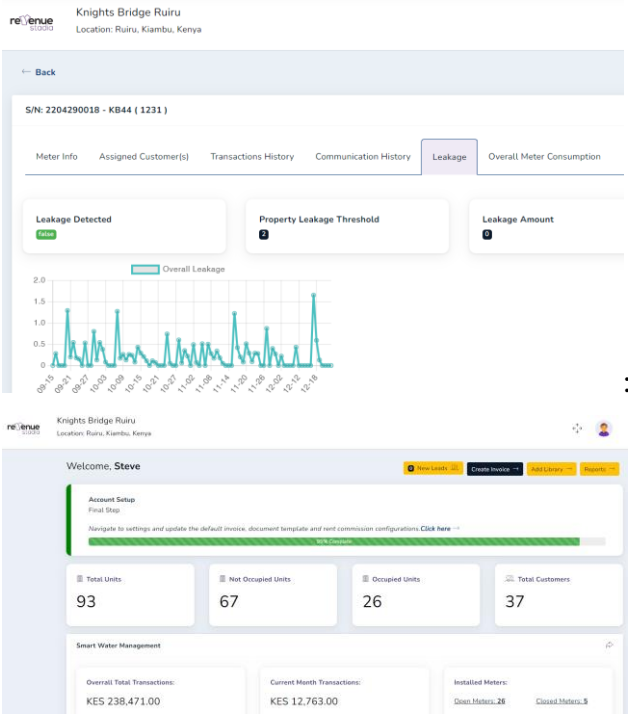


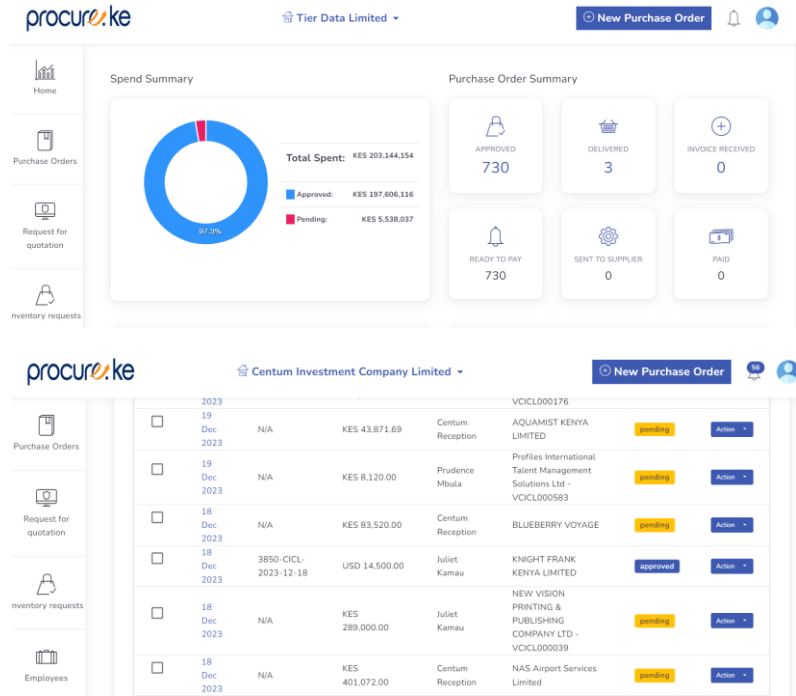
Notable Digital Transformation Projects (2023/2024)

Profile for Steve Butler Karechio

Project name	Project Description
<p>Project Name: Revenue Stadia Year: 2022 - Now</p> <p>Client(s): Utility Providers and Real Estate Developers</p> 	<ul style="list-style-type: none">• Led a team of 11 in designing a user-friendly frontend for revenuestadia.com, an IoT-based utility billing platform in real estate.• Spearheaded deployment of cross-platform applications, (Web, iOS and Android) applications in an optimized server environment on the cloud for streamlined operations enabling efficient automated collection of utility bills, service charges, and levies through mobile money and Visa.• Developed custom APIs for seamless integration with IoT devices, such as Smart Meters and Access Control systems that enabled real-time data exchange, enhancing precision and reliability in billing.• Implemented 10k+ IOT smart meters resulting to a streamlined billing experience, leading to increased user satisfaction.• Revenue Stadia has processed over 10million cubic litres of water since inception having a saving of over 30% on Non Revenue Water. <p><i>Tech Stack: MongoDB, Express.js, React.js and Node.js (MERN Stack), React Native</i></p>

Project Name: Procure.ke Year: 2020 - Now

Client(s): Medium and Large Enterprises



- Developed an end-to-end SaaS-based [eProcurement platform](#) providing, purchases management, approval workflows, budgeting, invoice matching and accurate reporting.
- Led the implementation of the eProcurement solution in various organizations with an aim of; resource optimization, cost savings, approval workflow automation, streamlined procurement process and compliance and audit trails.
- Developed custom APIs for seamless integration with ERP(SAP and Quickbooks online) to enhance data-driven analytics and minimal data entry.
- Pushed for multi-currency and multi-company support within the project.
- Received positive feedback from users for the user-friendly interface and the platform's ability to simplify complex procurement tasks.
- Procure.ke is currently under use in multiple organization across Kenya, Uganda and UAE.

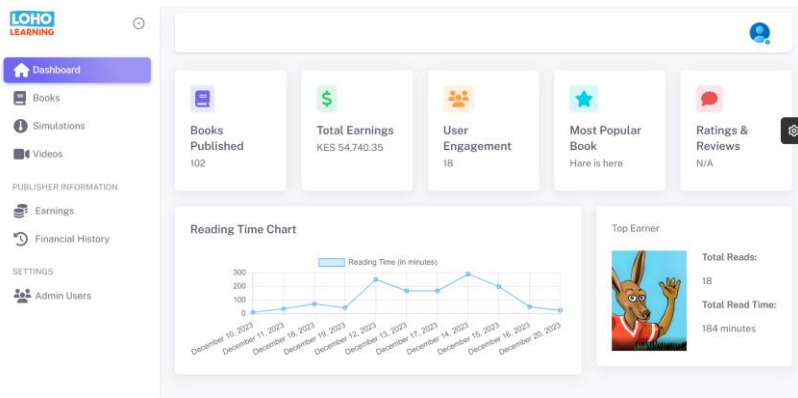
Tech Stack: MySQL, Laravel FrameWork, PHP, Javascript

Project Name: [LOHO Learning](#)

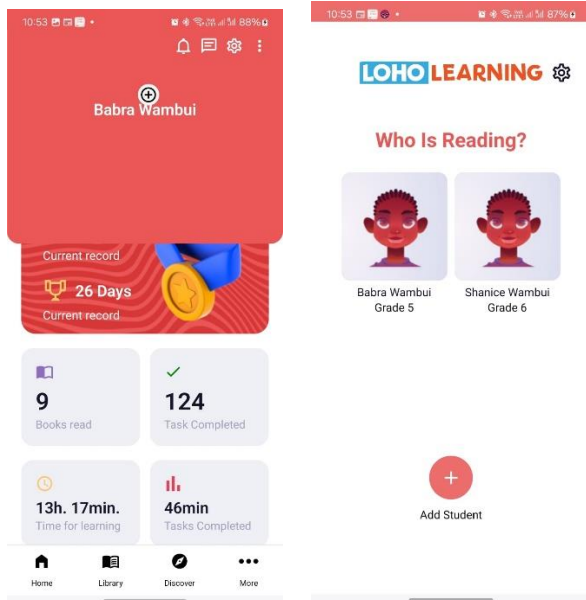
Year: 2023/2024

Client(s): Safaricom PLC & [Longhorn Publishers Plc](#)

Longhorn Publishers Plc is a Pan-African publishing house that is listed NSE Kenya. It has operations in Kenya, Uganda, Rwanda, Tanzania, Malawi, Cameroon, Zambia, Namibia, and Senegal.



- Developed a Digital Book Platform '[Loho Learning](#)' for Longhorn Publishers a revolutionary shift in the education sector, providing a dynamic and accessible digital alternative to traditional paper books. The platform not only modernizes the way educational content is consumed but has also fostered global collaboration and innovation through the integration of a Publishers Portal and third-party APIs.
- Seamlessly integrated the platform with mobile apps(Android and IOS) and tablets(Windows), offering users a convenient and portable way to access educational materials.
- Implemented a Publishers Portal, empowering Longhorn and other content providers to manage and curate educational materials efficiently, streamlining content delivery, enabling publishers to respond dynamically to evolving educational needs.
- Developed custom APIs allowing third-party vendors to enrich the platform with diverse content, including games, simulations, and videos providing a comprehensive learning experience, enhancing user engagement and promoting active learning.
- Integrated to Mobile Money(Safaricom M-Pesa) and Payment gateways() to allow for secure subscription model
- Implemented industry standard security measures to protect the IP(Intellectual property) for Longhorn and Third- party contributors.



- Incorporated analytics tools to provide data-driven insights into user behavior and content preferences enabling publishers to make informed decisions for content improvement and customization.
- Over 300,000 subscriptions in the Kenya market in 2023.

Tech Stack: MongoDB, Express.js, React.js and Node.js (MERN Stack), React Native

Project Name: [MyBidhaa](#)

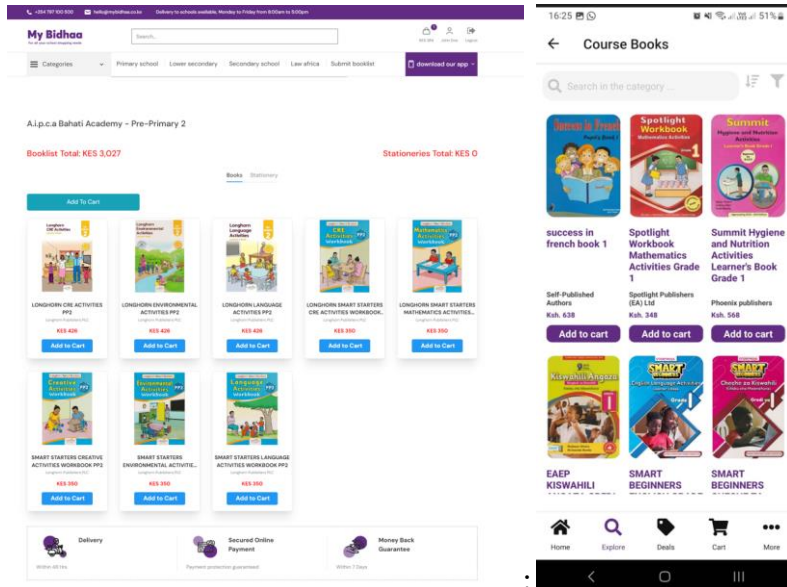
Year: 2022/2023

Client(s): [Longhorn Publishers Plc](#)

Longhorn Publishers Plc is a Pan-African publishing house that is listed NSE Kenya. It has operations in Kenya, Uganda, Rwanda,

- Developed [MyBidhaa an E-commerce platform](#) for Longhorn Publishers that enables distribution and accessibility of educational resources. It enables seamless online transactions for books and stationery, the platform caters to both individual parents and educational institutions, fostering efficiency, convenience, and a broader reach for Longhorn's offerings.
- Ensured a seamless and consistent shopping experience for users across different devices.

Tanzania, Malawi, Cameroon, Zambia, Namibia, and Senegal.



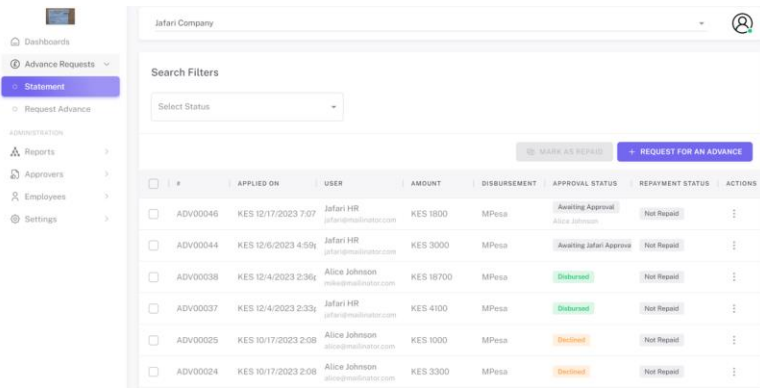
- Designed an intuitive and user-friendly interface, enhancing the online shopping experience and simplified navigation for parents and schools to easily find and purchase the required educational materials.
- Implemented an efficient delivery system for timely distribution to parents and schools.
- Implemented robust order tracking features, allowing users to monitor the status of their orders in real-time.
- Integrated to Mobile Money(Safaricom M-Pesa) and Payment gateways() to allow for secure and encrypted online payments.
- Incorporated analytics tools to provide data-driven insights into user behavior and content preferences enabling publishers to make informed decisions for content improvement and customization.

Tech Stack: MySQL, Laravel, Vue.js, React Native

Project Name: Jafari Salary Advance Mngt System Year: 2023

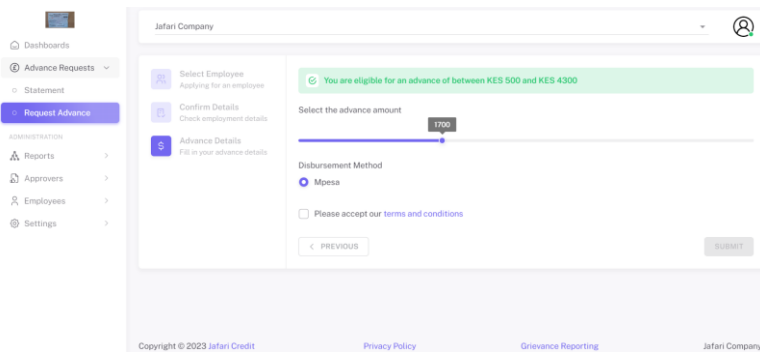
Client(s): [Jafari Credit Limited](#)

Jafari Credit, is a micro lender whose goal is to be the preferred credit provider for civil servants and Government Employees.



The screenshot shows a dashboard for 'Jafari Company' with a sidebar menu containing 'Dashboards', 'Advance Requests', 'Statement', 'Request Advance', 'ADMINISTRATION', 'Reports', 'Approvers', 'Employees', and 'Settings'. The main content area displays a table of advance requests with columns for ID, Applied On, User, Amount, Disbursement, Approval Status, Repayment Status, and Actions. The table contains 7 rows of data.

ID	APPLIED ON	USER	AMOUNT	DISBURSEMENT	APPROVAL STATUS	REPAYMENT STATUS	ACTIONS
ADV00046	KES 12/17/2023 7:07	Jafari HR	KES 1800	MPesa	Awaiting Approval	Not Repaid	
ADV00044	KES 12/6/2023 4:59	Jafari HR	KES 3000	MPesa	Awaiting Jafari Approve	Not Repaid	
ADV00038	KES 12/4/2023 2:36	Alice Johnson	KES 18700	MPesa	Disbursed	Not Repaid	
ADV00037	KES 12/4/2023 2:33	Jafari HR	KES 4100	MPesa	Disbursed	Not Repaid	
ADV00025	KES 10/17/2023 2:08	Alice Johnson	KES 1000	MPesa	Disbursed	Not Repaid	
ADV00024	KES 10/17/2023 2:08	Alice Johnson	KES 3300	MPesa	Disbursed	Not Repaid	



The screenshot shows the 'Request Advance' form in the Jafari Company system. The form includes a sidebar menu, a progress indicator with steps: 'Select Employee', 'Confirm Details', 'Advance Details', and 'Request Advance'. A green notification states: 'You are eligible for an advance of between KES 500 and KES 4300'. The 'Select the advance amount' field has a slider set to 1700. The 'Disbursement Method' is set to 'Mpesa'. There is a checkbox for 'Please accept our terms and conditions' and 'SUBMIT' and 'PREVIOUS' buttons.

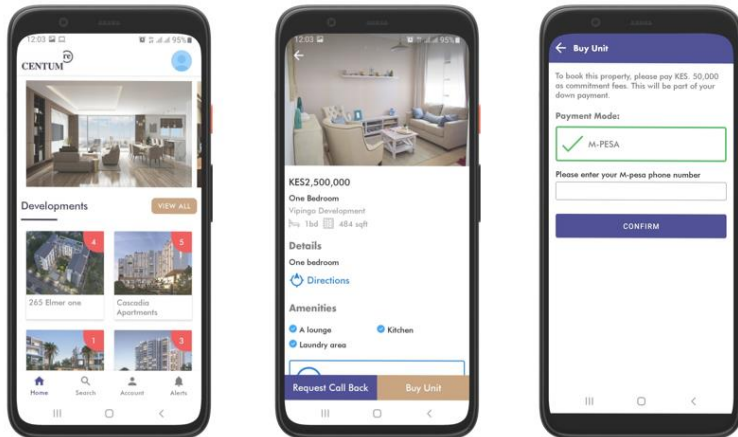
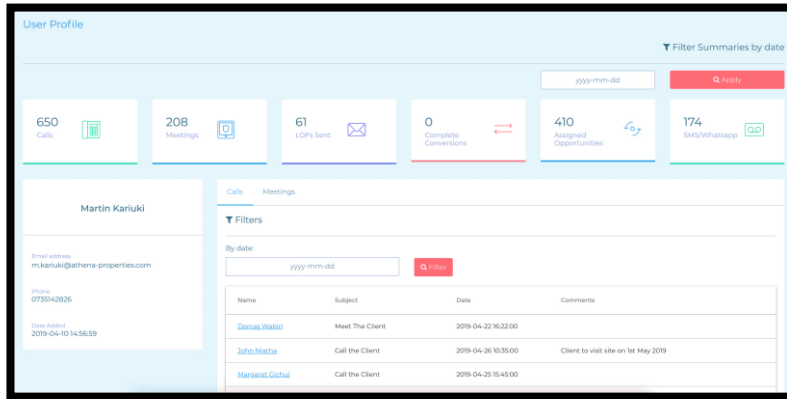
- Led the design and development of a digital salary lending platform that integrates to multiple payrolls and provides employees to digitally apply for salary advance.
- Workflow automation to streamline the approval process, including multi-level approvals if required, also has ensured notifications and alerts for employees and approvers every stage of the process.
- Ensured the Integration with payment gateways for secure and timely disbursements.
- Developed custom APIs for seamless integration with Payroll and HR departments of different organizations for zero data entry.
- Ensured support for multi-currency and multi-company within the Salary Advance Management System.
- Jafari Credit has successfully disbursed over USD 3 million using this tool to employees in Kenya over a 1 year period.

Tech Stack: MongoDB, Laravel, Vue.js, React-Native, Swift

Project Name: [RealCRM](#)

Year: 2019 - Now

Client(s): Commercial Real Estate Developers



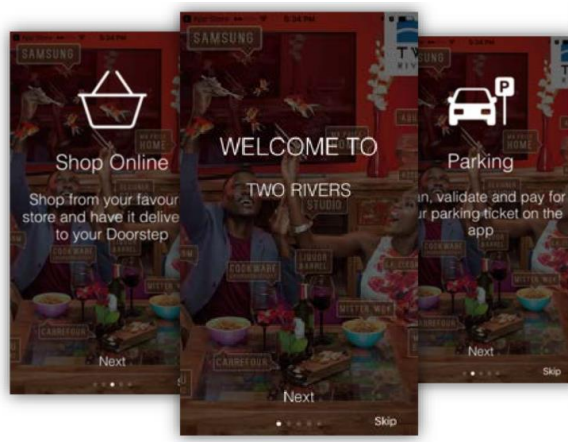
- Developed an end-to-end SaaS-based CRM tailored for Commercial Real Estate Developers it handles the sales process from initiation to unit handover. Offering end-to-end support, the platform streamlines operations, enhances documentation management, ensures compliance through KYC, and provides a comprehensive overview of customer engagement and sales team performance.
- The CRM generates Letter of Offers automatically, reducing manual effort and minimizing errors and speeds up the proposal and negotiation phase of the sales cycle.
- It ensures a centralized and organized repository for critical documents.
- The SaaS CRM platform also monitors and calculates commissions for the sales team, automating the commission tracking process.
- Developed custom APIs for seamless integration with ERP(SAP and Quickbooks online) to enhance data-driven analytics and minimal data entry.
- Pushed for multi-currency and multi-company support within the project.
- I have also incorporated an analytics tool for reporting and providing real-time insights into sales performance and customer behaviour.

Tech Stack: MySQL, Laravel FrameWork, PHP, Javascript, Java, Swift

Project Name: Two Rivers App and Loyalty Program Year: 2017

Client(s): [Two Rivers Lifestyle Center](#)

Two Rivers is the Largest Shopping Mall in East and Central Africa.



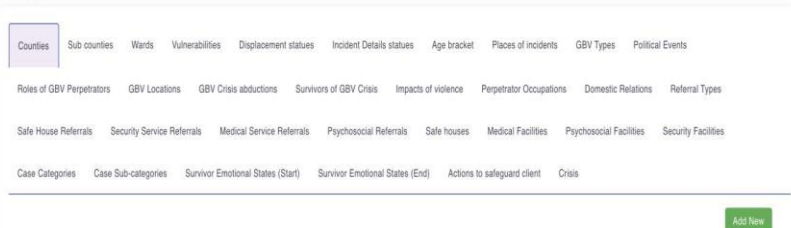
- Led the design and development of a the Two Rivers Mall App and Loyalty Program. The aim of the platform was to attract customers, provide a seamless engagement and reward loyal customers.
- Developed the Two Rivers Digital Platform to offer customers and visitors a one stop access to various features i.e. free Wi-Fi, Shop Listing, Events, Navigation and parking within the mall.
- Ensured the Integration with payment gateways to allow online purchases and payment of services i.e. parking/event tickets.
- Developed custom APIs for seamless integration with other applications WiFi, Parking and Event Access..
- Got over 19,000 downloads on PlayStore

Tech Stack: MySQL, Laravel PHP, Java, Swift

Project Name: HAK 1195 Call Center Database Year: 2019

Client(s): UNFPA, Ministry of gender Kenya

HAK 1195 is the National GBV Hotline in Kenya funded by UNFPA but housed under the Ministry of Gender within the Kenyan Government.



- Design and develop the 1195 National GBV Hotline database for improved data collation, analysis and dissemination, and provision of referral services in accordance with existing multi-sectoral GBV services in Kenya.
- I operationalized the data collection and management framework, including the data cleaning, structuring and transformation as well as data modelling.
- Developed a robust and resilient database for HAK 1195 with an improved design and structure for enriched analysis.

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Name	Lat/Long	Options
Baringo	0.7164348 , 34.881852	Action
Bomet	-0.7814212 , 35.3185985	Action
Bungoma	0.573704 , 34.5181838	Action

- Built an interactive and user-friendly dashboard so that stakeholders can manage a case tracking and analysis based on available data by designing and developing visual interfaces.
- Provided improved reports generation with such as maps, charts, datasets and infographics that can be available both online and offline basis.

Tech Stack: MySQL, Laravel PHP, Java, Swift

Project Name: Firearms Registry Portal
Ongoing

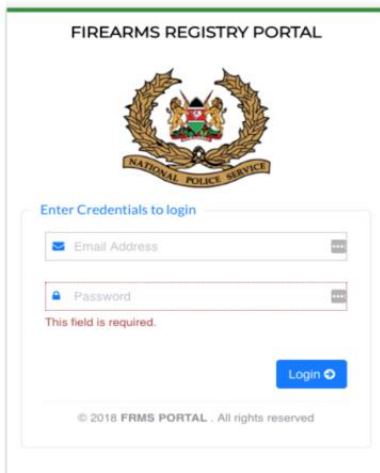
Year: 2018 -

Client(s): Kenya National Police Service, TetraTech and UK Aid

- Led the automation of the Kenya Police Service Firearms Registry Portal.

(Due to confidentiality clauses I cannot reveal much about this project)

Tech Stack: MySQL, Laravel PHP, Java, Swift



Recent Websites that I have worked on: (2024)

Centum Investment: <https://www.centum.co.ke>
Centum Real Estate: <https://centumre.co.ke>
TRIFIC: <https://trific.co.ke/>
Maiyan Group: <https://maiyan.co.ke/>
Cascadia Apartments: <https://cascadiaapartments.co.ke/>
Many Others;

Notable IT Infrastructure and ERP Deployments

Project Name: Centum Group SAP Business One Implementation
Industry: Financial, AgriBusiness, Energy, FMCG
Year: 2017
Client: [Centum Investment Company Limited and subsidiaries](#)



- Led successful ERP migration, transitioning from Microsoft Great Plains to SAP Business One as part of the Centum 3.0 strategy.
- Oversaw end-to-end migration aligned with strategic goals, collaborating on planning and creating a concise roadmap.
- Orchestrated SAP Business One customization for industry-specific needs, ensuring seamless data migration.
- Implemented robust change management and quality assurance, achieving streamlined operations and subsidiary consolidation.
- Successfully supported the client in consolidating subsidiaries, streamlining operations, and achieving operational synergies.

Project Name: Almasi Beverages – Coca-Cola Bottlers
Industry: FMCG
Year: 2018
Client: Almasi Beverages Limited



- I spearheaded the IT implementation merger of Coca-Cola Kisii Bottlers, Rift Valley Bottlers, and Mt Kenya Bottlers into Almasi Beverages Kenya.
- Successfully orchestrated the rollout of Microsoft Dynamics as the unified system across all bottlers, impacting over 2,000 workers.
- Implemented Sales Force Automation for 600+ sales and merchandising personnel.
- Designed and deployed an integrated IT infrastructure with a wide-area network, including disaster recovery and primary data centers.

Project Name: Carlsberg ERP and IT Infrastructure Implementation
Industry: FMCG
Year: 2019
Period: 4 Months
Client: Kings Beverage Limited



- Headed the successful implementation of SAP Business One, a comprehensive ERP solution tailored to Carlsberg's operational requirements to enhance efficiency in business processes, from inventory management to financial tracking.
- Implemented a Distributor Management System to optimize and streamline the distribution network, improving order processing and inventory management. Enhanced visibility and control over distribution channels, leading to more informed decision-making.
- Oversaw the setup of IT infrastructure in new warehouses and offices, ensuring a secure and reliable network environment.
- Collaborated with cross-functional teams to design and deploy a scalable infrastructure to support current and future business needs.

Project Name: Two Rivers Smart City
Year: 2015
Client: [Two Rivers Development Limited](#)



- Led the groundbreaking Two Rivers Smart City Project, marking a significant milestone as the first of its kind in Sub-Saharan Africa. As the visionary project manager, orchestrated the comprehensive design, implementation, and successful fundraising of USD 4 million for the initiative.
- Conceptualized and executed the design and implementation of the Two Rivers Smart City Project, introducing cutting-edge technologies to redefine urban living.
- Spearheaded the build and design of a Gigabit Passive Optical Network (GPON) infrastructure, delivering Fiber to the Building (FTTx) capabilities.
- Established an active Local Area Network (LAN) and campus-wide WiFi infrastructure to cater to retail and commercial needs.
- Oversaw the construction of a cutting-edge data center, boasting a capacity of 100KW and 20 racks to support the city's digital backbone.
- Implemented a robust security ecosystem encompassing over 600 CCTV cameras, Intelligent Video Management Systems, and an Intelligent Operations Centre (SOC/NOC).

- Deployed advanced security measures such as Under Vehicle Surveillance Systems (UVSS) and Trace Detectors, alongside Access Control and Screening systems.
 - Introduced a Smart Billing and Metering solution, optimizing utility usage and enhancing resource management.
 - Established a regulated eWallet system, approved by the Central Bank of Kenya, fostering digital financial transactions within the smart city.
 - Introduced a Multi-Tenant Loyalty System to encourage engagement and collaboration among businesses within the smart city.
-