MUNYWELE SAMMY

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GitHub: https://github.com/masgeek

PROJECTS COMPLETED FROM 2012-TO PRESENT

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GLOBEFINITY SYSTEMS

1. Implementation and Maintenance of Payroll Systems (2012 - 2013)
   - Designed, implemented, and maintained payroll systems using C#/VB.NET and SQL 2008 for esteemed clients:
     - Jomo Kenyatta University of Agriculture and Technology
     - Meru University of Science & Technology
     - Dedan Kimathi University of Technology (DeKUT) (Nyeri)
     - Taita Taveta University.
2. Backend Application Development for Various Websites
   - Developed backend applications for various websites using PHP and JavaScript, including:
     - Covidset 2013 (ANSTI conference page based on PHP and MySQL)
     - UNESCO (ioc-africa.org) experts and institutions search portal
     - UNESCO African Water Capacity Building - africawaterportal.org
     - Abandoned Mines Africa Website (https://abandonedminesafrica.org/)
3. Development of the ioc-africa.org Expert Database Search
   - Designed and developed the expert database search functionality for ioc-africa.org.
4. Mobile Application Development for Chancery Wright Insurance Brokers
   - Developed to enhance their digital presence and customer engagement.

ECLECTICS INTERNATIONAL

1. K-Rep Internet Banking Development (Aug 2014 - Jan 2015)
   - Led the development of K-Rep Internet Banking, involving the creation of mobile payment solutions utilizing Mpesa and Airtel services.
2. Trust Bank Gambia
   - Utility Bill Payment Systems a. Developed a USSD mobile application integrated using Infobip services for seamless utility bill payments. b. Implemented web platform payment integration, incorporating card and PayPal payment options.
   - Internet Banking
3. Integration with Core Banking System and MPesa Payment Services
   - Successfully integrated various systems with the Core Banking System and MPesa payment services to streamline financial transactions.
4. Integration of Cheque Printing Hardware
   - Integrated cheque printing hardware into the Internet Banking System service bus and message queue for efficient check processing.
5. Integration of Instant Debit Card Issuance Machines
   - Facilitated the integration of instant debit card issuance machines with bank systems, enabling the programming of client details directly onto the card chip.

UNIVERSITY OF NAIROBI

1. Online Application System Development
   - Spearheaded the development of an online application system for university applicants.
   - Integrated various payment options, including MPesa, Direct Banking Payment via custom API, and Credit Card Payment, in collaboration with KCB as the banking partner.
   - Enhanced communication through the integration of SMS messaging.
2. Postgraduate Academic Tracking System
   - Designed and developed a Postgraduate Academic Tracking System, enabling efficient monitoring of students engaged in thesis work.
3. Customer Support Booth Software
   - Created customized customer support booth software at the College of Humanities and Social Sciences (CHSS) to enhance service delivery for both students and prospective college clients.
4. Student Fee Payment Enhancement
   - Successfully integrated Lipa na MPesa online for fee payments.
   - Enabled credit and debit card payments for both Kenyan shilling and US dollar currencies.
5. Biometric Capture Device Integration
   - Integrated biometric capture devices using Vendor SDK (IDEMIA) for C++ and .NET platforms to enhance security and authentication processes.

FREELANCE WORK

1. API Specification Development (AgDxAPI) for Data Exchange among CGIAR Partners **(Dec 2020-Feb 2022**)
   - Crafted data exchange specifications for implementation by CGIAR alliance members.
   - Collaborated with agronomists and data scientists from member organizations to harmonize data.
   - Produced comprehensive technical documentation to facilitate API implementation by technical users.
2. Luxury Car Marketplace Application for iOS and Android (Liquid Torque) - Pristone Technologies (**2016**)
   - Integrated payment systems with Google Pay and Apple Pay.
   - Designed and implemented user messaging features within the application.
3. Real-time Auctioning Platform (eoction.com) - Pristone Technologies (**Dec 2015 – Mar 2017**)
   - Integrated real-time pricing services from eBay.
   - Implemented shipping and order tracking for customer convenience.
   - Integrated payment methods including PayPal and credit card processing.
4. Development of REST API Linked to Microsoft Navision System - Dynasoft Business Solutions (**Nov 2016-Jan 2017**)
   - Created a REST API for real-time client profile updates and information retrieval via a mobile-based portal.
5. Food Ordering and Delivery System for Web and Mobile Platforms in Somalia – Pizza Out (**Nov 2017 – Feb 2018**)
   - Facilitated payment integration through USSD payment and credit card payments via PayPal.
   - Develop both IOS and Android applications
   - API development to facilitate data exchange between applications
6. Clearance and forwarding document tracking system - Tellam International (**Jan 2018-Feb 2018**)
7. Upgrade and Modernization of Student Management System - The University of Nairobi (**Nov 2022-Dec 2023**)
   - Modernized the student management system, migrating it from PHP 4 to PHP 8.2.