

Obed Kwaku Gakpa

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TECHNICAL SKILLS

Languages: Javascript, Java, Php, Python.

Frameworks: Laravel, Vue, Django, TailwindCSS.

Databases: MySQL, MongoDB, PostgreSQL.

Additional Skills: Git, RestAPI, Postman, Unit testing, Docker, Ubuntu

PROFESSIONAL EXPERIENCE

Software Development

Amalitech Services GmbH

10/2023 – present
Accra, Ghana

- Architected and developed scalable web applications using PHP with Laravel framework, implementing advanced features like real-time notifications and job queues.
- Designed and implemented RESTful APIs using Laravel, incorporating Sanctum authentication and rate limiting for enhanced security and performance.
- Optimized database interactions using Eloquent ORM, implementing complex relationships and custom query scopes to improve application efficiency.
- Leveraged Laravel's ecosystem, including Laravel Horizon for queue monitoring and Laravel Telescope for debugging, to streamline development and maintenance processes.
- Implemented robust caching strategies using Redis and Memcached, significantly reducing database load and improving response times.
- Developed custom Laravel packages and service providers to extend framework functionality and promote code reusability across projects.
- Utilized Laravel's built-in tools like Artisan commands and database migrations to automate routine tasks and manage database schema changes.
- Implemented comprehensive automated testing using PHPUnit and Laravel Dusk, achieving over 90% code coverage and ensuring application reliability.
- Integrated third-party services and APIs, including payment gateways and cloud storage solutions, using Laravel's service container and facade pattern.
- Led code reviews and mentored peer developers in Laravel best practices, design patterns, and SOLID principles.

PROJECTS

Auth Service

2024 – 2024

Authentication System for Applications in a Microservice

- Developed a sophisticated authentication system using PHP and Laravel, leveraging the framework's powerful features to create a modular and maintainable codebase.
- Implemented a streamlined process for registering and authenticating applications within the ecosystem, using unique identifiers and custom middleware for secure inter-application communication.
- Designed a comprehensive user management system with role-based access control (RBAC), allowing for fine-grained permissions across different applications and user roles.
- Created a centralized authentication service to manage user identities across multiple applications, implementing Laravel Sanctum for secure, token-based authentication between services.
- Engineered multi-tenancy support, allowing the system to handle multiple applications with distinct user bases and configurations, including database separation for data isolation and security.
- Optimized for scalability and performance through efficient database queries, caching mechanisms using Redis, and asynchronous task handling with queue workers.

- Enhanced security through implementation of industry-standard encryption protocols, robust logging systems, comprehensive audit trails, and rate limiting on critical endpoints to prevent attacks and API abuse.

KTU Campus Guide

2024 – 2024

Intelligent KTU Campus Guide: AI-Powered Navigation Assistant

- Developed an innovative campus navigation system for Koforidua Technical University (KTU) using Python, leveraging its robust ecosystem to create a scalable and efficient application.
- Integrated advanced machine learning algorithms to provide personalized navigation recommendations based on user preferences and historical data, continuously improving route suggestions and points of interest.
- Implemented dynamic path finding using graph theory and pathfinding algorithms, enabling the calculation of optimal routes between campus locations while accounting for real-time updates and potential obstacles.
- Designed an intuitive, mobile-friendly interface accessible on various devices, ensuring widespread usability across the campus community.

Church Manager

2023 – 2023

Comprehensive Church Administration System

- Developed a robust, multi-functional church management application using the Laravel framework, leveraging its powerful MVC architecture for a scalable and efficient web solution.
- Implemented a hierarchical system for managing multiple church branches, including features for seamless transfer of members between branches and efficient record-keeping.
- Created a comprehensive member database with advanced search and filtering capabilities, storing detailed profiles and attendance records for efficient member management.
- Designed a resource allocation system for optimal assignment of pastors and other resources across branches, incorporating scheduling tools for pastoral rotations and special events.
- Integrated a communication hub allowing for both mass communications and targeted messages to specific branches or individuals, with real-time notifications for important updates.
- Developed functionality to create, manage, and track various church groups, including features for group-specific communications and event planning.
- Created intuitive dashboards and analytics tools providing at-a-glance insights into church growth, attendance trends, and resource utilization with data visualization for easy interpretation.
- Implemented role-based access control and security measures to ensure data privacy and appropriate feature access for different user levels.
- Designed with a responsive interface, allowing access from various devices for on-the-go management and enhanced user accessibility.

EDUCATION

HND. Computer Network Management

Koforidua Technical University

Coursework: Computer Hardware, Programming with C++, Programming with Vb.net, Programming with Java, System Analysis and Design, Data Structures and Algorithms