Ssengendo Nazil

Full-Stack Software Engineer
Specializing in Laravel, PHP, Node.js, Vue.js, React, MySQL, And RESTful APIs

📍 *Central Region, Uganda*
📞 +256 751 462 182 | ✉ ssengendonazil@gmail.com
Linkedin: https://linkedin.com/in/ssengendo-nazil-81923b1a4
Portfolio: https://ssengedonazil.github.io/portfolio-2024

Professional Summary

Versatile and results-driven Full-Stack Engineer with over 6 years of experience designing and developing scalable, high-performance web and mobile applications. Adept in modern JavaScript frameworks and backend technologies, with a strong track record of leading Agile teams, improving system efficiency, and delivering intuitive, user-centered solutions. Recognized for clean, maintainable code, proactive problem-solving, and a deep commitment to innovation, collaboration, and continuous growth.

Core Competencies

- **Web Development / Front end**: JavaScript, jQuery, HTML, CSS, React, Node.js, Express.js, Vue.js, Electron, Redux, Vuex, Pinia, TypeScript

- **Mobile Development**: React Native (iOS & Android)

- **Backend Development**: Node.js, PHP, Laravel, Express

- **Database Management**: MySQL, MariaDB, MongoDB, PouchDB

- **Performance Optimization**: SQL Query Optimization, Caching, Load Balancing, Lazy Loading, Code splitting, and Indexing

- **Version Control & Tools**: Git, GitHub, GitLab, Docker, Jira, Agile, Azure

- **UI/UX Design**: Tailwind CSS, Bootstrap, Material Design

- **APIs & Integrations**: RESTful APIs, API Integrations, Microservices

- **Software Architecture**: Scalable Systems, Cloud Solutions, Microservices

Work Experience

Module Lead – Software Engineer

Project Code (Ltd) Uganda – Kampala, Uganda
Jul 2023 – Present

- Architected and led the development of a scalable Patient Management Module, increasing performance by 70% and reducing load times by 50% through optimized queries, Redis caching, and efficient state management.

- Integrated offline-first synchronization using PouchDB to ensure functionality in low-connectivity environments.

- Implemented Role-Based Access Control (RBAC) for secure, compliant data handling, aligning with Health Insurance Portability and Accountability Act (HIPAA) standards.

- Enhanced slow-performing database queries, reducing API response times by 80%, from 5 seconds to 24ms, significantly enhancing system responsiveness and user experience.

- Led cross-functional Agile teams to deliver high-impact product features on time and within scope.

- Developed reusable Vue.js packages for high-traffic environments, increasing system speed by 80% and replacing third-party dependencies, which reduced licensing costs by 60%.

- Supported the development of **Lenderly**, a loan management platform for a Philippine financial services firm, ensuring system reliability, scalability, and adherence to regulatory requirements.

- Mentored junior developers and promoted cross-team collaboration, fostering a culture of continuous learning and knowledge sharing.

- Contributed to the development of **MetaDent**, a dental practice CRM based in Amsterdam, by implementing key frontend features using Vue.js and developing backend logic in Laravel to support appointment scheduling and patient management.

Maintance – Software Engineer

Technology Point – Kampala, Uganda
Apr 2023 – Dec 2023

- Engineered high-performance, scalable systems with 99.9% uptime.

- Applied load balancing and horizontal scaling, reducing server response time by 60%.

- Developed RESTful APIs and integrated third-party services to extend system capabilities.

- Supported cross-department goals with efficient and scalable solutions.

Freelance - Software Engineer

Kampala, Uganda | Remote
May 2020 – Oct 2023

- Delivered 15+ full-stack projects using Laravel, React, Node.js, React Native, and MySQL.

- Refactored legacy code, improving maintainability and execution speed by 25%.

- Enhanced SQL performance by 70% through indexing and query tuning.

- Engineered a custom caching system utilizing Redis, decreasing database load by 40% and improving API response times by 60% for over 5,000.
- Implemented YooPayment gateway integration for e-commerce platforms, enabling secure online transactions and reducing payment processing time by 40%.

Software Engineer – Software Engineer

DataCare Systems – uganda Remote
Feb 2022 – Mar 2023

- Designed an inventory tracking system with 95% stock accuracy across 10+ outlets.

- Reduced manual effort by 60% via API integrations (SMS, payments).

- Reengineered backend modules to reduce server costs by 30%.

- Delivered major feature releases in collaboration with PMs, QA, and UX teams.

Backend Developer – Full Stack Engineer

GritTech Solutions – Kampala, Uganda
Jun 2021 – Jan 2022

- Built REST APIs with (Laravel/Node.js) across 4 enterprise platforms.

- Reduced incidents by 20% with custom validation and encryption strategies.

- Automated system backups and alerts using cron jobs.

Software Developer - Software Engineer

Araknerd – Kampala, Uganda
2015 – 2019

- Diagnosed and refactored legacy systems for improved stability and performance.

- Redesigned backend architecture to improve API speed and system security.

- Provided technical support and maintenance across 4 large-scale platforms.

Education

Bachelor's Degree in Computer Science
Kampala University - Kampala, Uganda

Uganda Advanced Certificate of Education (UACE)
Seguku Hills, Uganda

Uganda Certificate of Education (UCE)
Seguku Hills, Uganda

Key Projects & Achievements

- **SQL Performance Optimization:** Boosted SQL performance by 80% via advanced query tuning, indexing, and query caching using Redis.

- **Relational Database Design:** Designed and normalized a multi-tenant relational database system in MySQL for a school management platform, reducing data redundancy by 85% and simplifying query structures.

- **SQL Injection Mitigation:** Implemented comprehensive security measures to prevent SQL injection attacks across all applications by using parameterized queries (PDO in PHP and prepared statements in Node.js) and strict input validation.

- **Role-Based Access Control (RBAC):** Developed secure authentication and authorization systems using Laravel Policies and Gates to ensure proper access

control and data protection.

- **Database Integrity:** Enforced database constraints, foreign key relationships, and cascading rules to maintain referential integrity and minimize anomalies.

- **Audit Logging:** Integrated activity logging and data change tracking for critical actions using database triggers and application-level logs for compliance and monitoring.

- **Legacy System Refactoring:** Modernized over 10 legacy codebases by replacing vulnerable raw SQL statements with secure ORM-based queries (Eloquent & Sequelize).

- **Secure REST API Development:** Applied input sanitation and rate limiting on API endpoints to prevent injection and DoS attacks.

- **High-Impact Applications:** Successfully delivered 15+ full-stack systems across healthcare, education, and finance sectors with a strong focus on data security and compliance.

Certifications & Courses

- Full-Stack Web Development Certification
- React Native Development
- SQL Performance Optimization

Technical Skills

- **Programming Languages**: JavaScript, PHP, SQL, HTML, CSS, Python

- **Frameworks & Libraries**: React, Vue.js, Node.js, Express.js, Laravel, React Native, Electron.js, Typescript
- **Databases**: MySQL, MongoDB, MariaDB, PouchDB

- **Version Control & Tools**: Git, GitHub, GitLab, Docker, Jira

- **UI Frameworks**: Tailwind CSS, Bootstrap, Material UI

- **Others**:

  - RESTful APIs & API Integrations

  - Microservices Architecture

- Agile Methodologies

- UI/UX Design

- Code Refactoring

- Quality Assurance

- Innovative Problem Solving

- Team Collaboration & Communication skills
- System Performance
- Continuous Integration
- unit/integration testing

Soft Skills

- Led and collaborated with cross-functional teams in Agile/Scrum environments to deliver production-ready features

- Communicated technical concepts effectively across stakeholders, including PMs, QA, and non-technical teams

- Diagnosed and resolved complex production issues, reducing downtime and improving user experience

- Maintained high code quality through rigorous testing, code reviews, and continuous integration practices

- Adapted quickly to shifting priorities and integrated new technologies to meet evolving project requirements

- Delivered high-priority features within tight deadlines, ensuring on-time releases and stakeholder satisfaction

- Demonstrated ownership and initiative in streamlining workflows and improving developer onboarding processes

Languages

- **English**: Fluent

- **Luganda**: Native

Additional Information

- Continuously exploring and adopting emerging technologies to enhance development efficiency and product scalability

- Thrive in collaborative environments that value innovation, knowledge sharing, and continuous improvement

- Open to travel and remote opportunities that involve solving real-world challenges with meaningful impact
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