Moses Alukwe Nielsen

Software Engineer

Nairobi, Kenya | mosesnielsen68@gmail.com | +254796892012 | linkedin.com/in/moses-nielsen/

PROFILE SUMMARY

A dynamic Software Engineer with a proven track record of delivering high-quality software solutions that align with organizational objectives. Proficient in leveraging cutting-edge technologies and methodologies, with expertise in full-stack development, including React, AngularJS, and Node.js. Possess a robust understanding of databases, both SQL and NoSQL, such as PostgreSQL, MySQL, and MongoDB. Skilled in multiple programming languages, including Python, Java, and JavaScript. Adept in agile project management and dedicated to providing top-notch customer service, with exceptional communication and problem-solving abilities. Ready to drive innovation and deliver impactful results in the field of software engineering.

EDUCATION

Power Learn Project (PLP) Software Scholarship Program (2024)

- Software Development Upskilling courses

Jomo Kenyatta University of Agriculture and Technology (2017-2022)

- Bachelor of Science in Business Computing

Butula Boys High School (2013-2016)

- Kenya Certificate of Secondary Education

SKILLS

- **Programming Languages**: Proficient in Python, PHP, JavaScript, NodeJs with a solid understanding of object-oriented programming principles.
- **Web Development**: Experience with front-end technologies like HTML, CSS, and JavaScript, as well as frameworks like React, TypeScript, Django, and Laravel. Proficient in backend technologies including Node.js, Express, PHP.
- **Database Management**: Knowledge of SQL and experience in designing and optimizing databases using MySQL, PostgreSQL.
- **Software Development Lifecycle**: Skilled in all phases of the software development lifecycle, including requirements gathering, design, development, testing, deployment, and maintenance.

- **Problem Solving**: Strong analytical and problem-solving abilities with a proven track record of delivering innovative solutions.
- **Team Collaboration:** Excellent communication and interpersonal skills, with the ability to work effectively in cross-functional teams and collaborate with stakeholders.
- **Management** - Natural ability to mentor, inspire, develop, and lead groups of people and achieve objectives set. Friendly, approachable, and inspiring individual, and lead my team by example.

──────── WORK EXPERIENCE AND ACHIEVEMENTS ────────

Technical Lead - Temenos Infinity Products

SGNT Kenya,

January 2025 – Current, Nairobi, Kenya

- **Lead Infinity Products**: Serve as the expert lead for Spotlight Banking Admin, Fabrics Backend, and Online Banking, ensuring seamless functionality and user satisfaction.
- **Oversee Product Development**: Manage the entire lifecycle of product features, from design and development to deployment and maintenance.
- **Manage CI/CD Pipelines**: Implement and maintain CI/CD pipelines to automate and streamline the deployment of updates and new features.
- **Optimize Database Performance**: Write and optimize complex SQL queries to improve database performance and minimize latency.
- **Resolve Software Errors**: Analyze and resolve software errors using advanced debugging techniques and monitoring tools.
- **Implement New Features**: Collaborate with stakeholders to design and deploy innovative features that align with business needs and user expectations.
- **Ensure System Optimization**: Regularly evaluate and improve the scalability, security, and performance of Infinity products.
- **Provide Team Leadership**: Mentor team members, share technical knowledge, and act as the primary point of contact for stakeholders regarding Infinity products.

Senior Software Engineer

SGNT Kenya,

December 2023 – Current, Nairobi, Kenya

- **Integration and Configuration of Banking Software Solutions**: Building custom web and mobile applications as well as enterprise software, encompassing front-end, back-end, and database architecture for Banking and Financial institutions.
- Leveraging REST APIs to enable seamless system integrations, ensuring smooth interoperability across platforms.
- Provide technical support and troubleshooting for software issues, addressing customer concerns promptly and effectively.

- Utilizing Git for version control to facilitate active team collaboration and promote high code quality and efficiency.
- Writing SQL queries to extract and analyze data from Oracle, SQL Server, and PostgreSQL databases for database management practices.
- Establishing Continuous Integration/Continuous Deployment (CI/CD) pipelines to streamline code deployment processes, enhancing agility and scalability."
- Actively contribute to the improvement of development processes and methodologies, suggesting and implementing enhancements.
- Collaborate with cross-functional teams within different departments to gather and analyze requirements, design software solutions, and implement new features

Software Engineer Intern

SGNT Kenya,

November 2022 – December 2023

- Testing of Banking API using API testing platforms such as Postman.
- Configuration and editing of codebase before integration for client use.
- Assisted in the deployment and integration of software systems, working closely with DevOps teams.
- Conducted thorough testing and debugging to ensure the delivery of high-quality software products.
- Provided technical support and troubleshooting for software issues, addressing customer concerns promptly and effectively.

Conference Presenter

WASPA Youth and Women Water and Sanitation Conference

May 26 2021 – May 28 2021 – Online

- **Conference Paper Title –** Design and Implementation of a Proposed Water Billing System. The role of ICT in achieving Sustainable Development Goal number 6 (Clean water and sanitation to all by 2030). Held Online Presentation.

IT Support Specialist (Industrial Attachment)

Kenya National Bureau of Statistics

January 2021 – April 2021, Nairobi, Kenya

- Provide extensive IT support to internal employees and stakeholders.
- Installed and configured computer hardware, Operating system, and application.
- Monitored and maintained computer systems and Networks.

- Resolved and diagnosed computer software and hardware faults
- Statistical and Economic survey

PROJECTS

Web App with Integrated API: Developed a feature-rich web application using ReactJS, and NodeJS, integrating various third-party APIs to enhance functionality. Implemented features such as push notifications, in-app messaging, and secure user authentication, offering a robust and engaging user experience.

Scalable Scholarship Web Application: Developed a highly scalable scholarship web application using modern frameworks for the front end and Node.js for the back end. Implemented features such as user authentication, real-time data updates, and responsive design, ensuring a seamless user experience across devices.

Customer Relationship Management (CRM) System: Developed a comprehensive CRM system to manage customer interactions, sales tracking, and marketing campaigns. Features include contact management, lead tracking, and reporting, with a user-friendly interface and integration with various communication channels.

Real-Time Collaboration Platform: Created a real-time collaboration tool for teams to work together efficiently. Implemented features like chat, file sharing, video conferencing, and collaborative document editing, ensuring smooth communication and project management.

E-Commerce Marketplace: Built a scalable e-commerce marketplace platform with features such as product listings, user reviews, order management, and payment processing. Implemented search functionality, recommendation algorithms, and secure transactions.

CERTIFICATIONS

- Python certification from Pirple.com (Discount-Courses.com)
- ES6 JavaScript certification from Pirple.com (Discount-Courses.com)
- Advanced Python certification from Mosh Academy (codewithmosh.com)
- React and Typescript certification from Mosh Academy (codewithmosh.com)
- NodeJs certification from Mosh Academy (codewithmosh.com)

REFEREES

Dr. George Kwedho

Chair of Board Members, Water and Sanitation Providers Association (WASPA).

Email: gfkwedho@gmail.com

Cell: +254723709174

Philip Oyier

Jomo Kenyatta University of Agricluture and Technology

Email: oyierphil@jkuat.ac.ke

Cell: +254722385245

Allan Mudanyi

Head, Digital and Enterprise Solutions (SG Newtech)

Email: allan.mudanyi@sgnewtech.com

Cell: +254724008638