

# Moses Alukwe Nielsen

Software Engineer

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## PROFILE SUMMARY

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.

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## EDUCATION

### 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

### Josana Academy (2009-2012)

- Kenya Certificate of Primary Education

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## 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, 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** - I have a natural ability to mentor, inspire, develop, and lead groups of people and achieve objectives set. I am a friendly, approachable, and inspiring individual, and I lead my team by example.

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## WORK EXPERIENCE AND ACHIEVEMENTS

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### December 2023 – Current | Senior Software Engineer (SGNT 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

### November 2022 – December 2023 | Software Engineer intern (SG Newtech – Software Group)

- 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.

## September 2020 – September 2022 | Trinix Cyclemart Business Centre

- Overseeing the operations and activities of the business.
- Installation and configuration of the computer systems.
- Successful installation and Maintenance of computer software including the live configuration of the business Point of Sale (POS) system.
- Preparing system sales reports.
- System audit and report analysis.

## July 2021 | WASPA Youth and Women Water and Sanitation Conference

- **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.

## January 2021 – April 2021 | Kenya National Bureau of Statistics (Industrial Attachment)

- 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

## January 2019 | Census Tablet configuration

- Software installation and configuration of the tablets that were used for the census 2019 at Jomo Kenyatta University of Agriculture and Technology.

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## PROJECTS

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**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.

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### CERTIFICATIONS

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- 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)

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### REFEREES

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Dr. George Kwedho  
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