GRACE NDUTA KIGAA

SENIOR SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

Innovative and results-driven **Senior Software Engineer** with over 8 years of experience in designing, developing, and deploying scalable web and mobile applications. Proficient in TypeScript, Node.js, React.js, Next.js, React Native, SQL, Docker, and cloud platforms (GCP & Azure). Adept at integrating QuickBooks, eTIMS, and Mpesa payment solutions. Passionate about optimizing system performance and driving process automation. A strong advocate of Agile methodologies, CI/CD, and DevOps practices.

WORK EXPERIENCE

Senior Full Stack Engineer | 2021 - Present.
PowWater Limited.
Tech Stack: *Node.js, React.js, React Native, PostgreSQL, Docker, Google Cloud Platform*

- Spearheaded the transformation of company operations from manual to automated processes, improving efficiency and reducing errors.
- Developed and deployed RESTful APIs for internal and external applications, ensuring seamless data exchange.
- Implemented React.js for a modern, responsive, and intuitive frontend user experience.
- Integrated QuickBooks API for automated financial processing, reducing manual accounting work.
- Designed and optimized database schemas to enhance data storage and retrieval performance.
- Led the integration of Mpesa payments into company systems for secure mobile transactions.
- Streamlined invoice tracking by integrating eTIMs, improving reporting accuracy.

Software Developer | 2018 - 2021
Mawingu.
Tech Stack: *Node.js, Microservices, React.js, React Native, PostgreSQL, Docker*

- Developed and maintained a microservices-based architecture, improving application scalability and modularity.
- Built and deployed RESTful APIs supporting critical business operations.
- Designed and implemented mobile applications using React Native, enhancing accessibility for customers.
- Created a modern company website with an intuitive design and improved performance.

Software Developer | 2017 - 2018
Micropoint Systems.
Tech Stack: *Node.js, React.js, React Native, SQL, CI/CD, TypeScript*

- Developed client and internal applications, ensuring seamless integration with backend services.
- Implemented secure Mpesa payment integration, enhancing transaction reliability.
- Created customer report generation features using SQL queries.

EDUCATION

Maseno University, Kenya | 2012 - 2016
Bachelor's Degree in Mathematics & Computer Science

St. Joseph Girl's, Kibwezi | 2008 - 2011
Kenya Certificate of Secondary Education (KCSE)

TECHNICAL SKILLS

Programming Languages & Frameworks:
- TypeScript, JavaScript, Node.js, React.js, Next.js, React Native.
- Microservices Architecture, RESTful APIs

Databases & Cloud Technologies:
- PostgreSQL, SQL, MongoDB.
- Google Cloud Platform (GCP), Microsoft Azure

DevOps & Tools:
- Docker, Kubernetes, CI/CD Pipelines.
- Git, Jira, Agile Methodologies

Third-Party Integrations:
- QuickBooks API, Mpesa API, eTIMS

PROJECTS HIGHLIGHTS & ACHIEVEMENTS

Automated Financial Workflows:
- Implemented QuickBooks & eTIMs integrations, reducing manual accounting work by 40%.

Enhanced Payment Systems:
- Developed a secure Mpesa integration, ensuring fast and seamless transactions.

Optimized API Performance:
- Refactored API services, leading to a 50% reduction in response time.

Cloud Migration:
- Led a team in transitioning legacy systems to cloud-based architecture (GCP & Azure), improving uptime and security.

Mentorship & Leadership:
- Trained and mentored junior engineers, fostering a strong engineering culture.

TOOLS & COLLABORATION

- **Agile & Scrum Methodologies** – Led sprint planning, daily stand-ups, and retrospectives.
- **Collaboration Tools** – Slack, Microsoft Teams, Jira.

References Available Upon Request