CHRISTINE KHEKAME JUMA
SOFTWARE ENGINEER

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SUMMARY

A dedicated and versatile full-stack software engineer with a strong focus on database management, Mobile Development and expertise in both front-end and back-end development. Proficient in JavaScript, NextJS, TypeScript, React, Flask, SQL, Python, HTML and CSS, with a background in civil engineering providing a unique perspective. Experienced in designing, developing, and maintaining scalable software systems, databases and web applications to enhance user experience and drive business success.

SKILLS

- Database Management and Security.
- Mobile App Development.
- API Development and Integration.
- Web Design and Development.
- Software system design.
- Software Development Methodologies.

PROJECTS

SAVIX Independent Group Mobile App - Link
Developing App features for this app to be used by groups as a basic ledger that tracks member savings, lending and group cash balances.
Kalority Website - Link
Developed Kalority Ventures Solution company to highlight what the company offers to users and how it can be contacted.
Tepulse - Link
Created a tech-focused blog platform delivering the latest trends, insights, and news.
Population Data App – Link
Built a web application for visualizing and analysing population data.
Restaurant website - Link
Developed a user-friendly restaurant website featuring menus, customer reviews, contacts and interaction with menu (likes and orders) using JavaScript and React.

EXPERIENCE

Junior Software Engineer | **Kalority Software Driven Solutions (SAVIX Project ~ Germany)** July 2024 – September 2025| Nairobi

- Developing and testing features for the SAVIX Independent Group Mobile app.
- Design and execution of complex SQL queries for data retrieval, updates, and analysis to support business decisions.
- Administering SQL databases with a focus on security best practices, including encryption and compliance with data protection regulations.
- Developing and implementing backup and recovery strategies for SQL databases, ensuring data integrity and quick restoration.
- Managing SQL Server user accounts, roles, and permissions to maintain secure and efficient access.
- Configuring and monitoring SQL Server Agent jobs for automation tasks.
- Handling password resets for networks and MIS users.
- Installation and configuration of MSSQL Server.
- Creating Kalority company website.

Key Accomplishments:
- Successfully reduced SQL query execution times by 20% and improving data retrieval efficiency.
- Successfully delivered 100% creation of Kalority company Website.
- Successfully developed SAVIX Independent Group mobile App and deployed live on Play Store.
- Implemented and updated changes on the thesavix.org site.

Software Developer Intern | Path Audiology Diagnostic Equipment Ltd.
January 2024 - March 2024 | Nairobi
- Customized and programmed audiology devices and hearing aids.
- Configured and equipped audiology test rooms.
- Installed and set up Mira software for audiology applications.
- Managed updates and maintenance of the company website.

Key Accomplishments:
- Enhanced audiology devices' performance, leading to an increase in user satisfaction.

Lab Assistant | Hyoung & Co E.A.
March 2022 – May 2023| Chemilil- Muhoroni- Kipsitet Road Kisumu.
- Conducted tests and research on soil, concrete, and aggregate materials.
- Managed material sites and established quality standards for construction materials.
- Performed concrete testing on culvert structures.
- Preparation and Computation of tests results.

Key Accomplishments:
- Conducted tests and research on soil, concrete, and aggregate materials.
- Managed material sites and established quality standards for construction materials.

Trainee | Kenya National Highways Authority (KeNHA -Region) September 2019 – December 2019| Nairobi.
- Conducted materials testing on aggregates, soils, and concrete.
- Designed road alignments and cross-sections.
- Prepared monthly reports and Interim Payment Certificates.

- Planned and supported road maintenance works and conducted survey.

<u>Key Accomplishments:</u>
- Timely preparation of monthly reports and Certificates, facilitating efficient project financial tracking and payments.

Trainee | Batch Associates & Shah Technical Consulting Firm (Muruny-Siyoi Dam) September 2018 – December 2018| West Pokot.
- Conducted topographic and site surveys.
- Inspected earthworks, drilling operations, grouting, and concrete works.
- Performed tests on soil, aggregates, water, and concrete.
- Designed culverts and road alignments.

<u>Key Accomplishments:</u>
- Enhanced inspection processes, leading to a reduction in construction errors.

CERTIFICATIONS

- **Complete Microsoft SQL Server Database Administration Course**: Udemy.
- **Complete JavaScript Course 2024**: Udemy.
- **Understanding TypeScript**: Udemy.

EDUCATION

Moringa School	Certificate in Software Engineering.	2023May-Nov.
The Eldoret National Polytechnic	Diploma in Civil Engineering.	2017 – 2021.
Friends School Kimang'eti Girls	Certificate of Secondary Education.	2013 – 2016.
Highrise Education Centre	Certificate of Primary Education.	2009 – 2012.
Brainhouse School	ECDE and Lower Primary.	2004 – 2011.

CLUBS

- **Christian Union**: The Eldoret National Polytechnic.
- **Kenya Scouts:** Nandi North Subcounty.
- **Science and Engineering Fair**: Friends School Kimang'eti Girls.