JEAN-LUC TWITE ILUNGA

SOFTWARE DEVELOPER/ENGINEER

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Location: Pretoria, Gauteng, South Africa,

I am a Passionate Software Engineer who enjoy interacting with individuals from different backgrounds. Currently seeking employment. Ready to utilize my skills and passion to further the mission of a company. Technologically adept, offering experience with many different social media platforms, office technology programs, and advanced computer skills.

A self-motivated person who has demonstrated a particular aptitude time management, team leadership and maximizing available resource to overcome barriers. Fluent in French and English and always mentally prepared to carry out any required task. Bringing forth a positive attitude and the willingness

EXPERIENCE

During my tenure at Fluid Intellect as a Software Engineer, I played a pivotal role in developing a cutting-edge mobile application utilizing React Native for the frontend and Spring Boot for the backend. As part of a collaborative team effort, I spearheaded the implementation of biometric authentication and seamless integration of MySQL databases with the frontend, ensuring robust security and efficient data management.

Leveraging REST APIs and Axios, I engineered a dynamic communication layer between the frontend and backend systems.

Additionally, I contributed to the creation of a WordPress website for a business partner, leveraging plugins such as Elementor for intuitive design and customization. By employing starter templates and integrating essential functionalities, we delivered a polished and user-friendly website that met our partner's requirements.

Throughout these projects, I encountered and successfully resolved various technical challenges, demonstrating my problem-solving abilities and adaptability in dynamic environments. Looking forward, I am eager to leverage my expertise in software engineering and continue delivering impactful solutions to drive success in future endeavors.

I was entrusted with the responsibility of constructing real-time dashboards utilizing Power BI. My task involved sourcing data from xAPI and our internal databases. Once I acquired the necessary data sources, I commenced the dashboard design process.

Employing Power BI's intuitive interface, I crafted visually compelling dashboards tailored to meet our organization's specific needs. These dashboards provided actionable insights derived from the amalgamation of xAPI data and internal database information.

Upon completion of the dashboard design phase, I seamlessly transitioned to the deployment stage. Leveraging Power BI Service, the cloud-based platform for disseminating and collaborating on Power BI content, I published live dashboards. This enabled stakeholders to access real-time analytics and make informed decisions based on up-to-the-minute data.

Throughout this project, I demonstrated proficiency in data integration, visualization, and cloud-based deployment, contributing to the enhancement of organizational decision-making processes.

Experienced Data Engineer with a strong background in designing, implementing, and maintaining data pipelines and infrastructure. Skilled in developing scalable solutions for data ingestion, processing, and storage using technologies such as Apache Spark, Hadoop, and cloud-based data platforms. Proficient in programming languages like Python and SQL, with a deep understanding of data modeling and ETL processes. Proven track record of collaborating with cross-functional teams to deliver data-driven solutions that meet business objectives.

Using Jenkins, I automated the deployment process by first cloning the project from GitHub, then building a Docker image encapsulating the application and its dependencies. Subsequently, I seamlessly pushed the Docker image to Amazon ECR (Elastic Container Registry) using AWS credentials and the ECR plugin for Jenkins. Finally, leveraging the AWS ECS plugin for Jenkins, I orchestrated the deployment of the Docker container onto Amazon ECS (Elastic Container Service), ensuring high availability and scalability. This streamlined approach to auto-deployment minimized manual intervention, enhanced workflow consistency, and accelerated the delivery of updates, epitomizing the efficiency and agility of modern DevOps practices.

PROJECTS

- **Carwash Booking Service Website**

As part of my portfolio of projects, I conceptualized and developed a comprehensive carwash booking service website. Leveraging my expertise in Java EE for backend development and Derby as the database technology, I engineered a robust and scalable architecture to handle the intricacies of appointment scheduling, customer management, and service tracking.

On the frontend, I crafted an intuitive user interface using HTML, CSS, and JavaScript, ensuring a seamless and engaging experience for both customers and administrators. By incorporating responsive design principles, the website delivers optimal performance across various devices and screen sizes.

Throughout the development process, I demonstrated proficiency in database management, with a preference for MySQL, ensuring efficient data storage and retrieval mechanisms. This project not only showcased my technical capabilities but also highlighted my ability to translate business requirements into functional and user-friendly solutions.

The carwash booking service website stands as a testament to my skills in full-stack development, encompassing backend logic, frontend design, and database integration to deliver a streamlined and impactful digital experience.

- **Healthcare Android Application**

In another endeavor, I spearheaded the development of a healthcare mobile application aimed at providing users with convenient access to essential medical services and resources. Utilizing Android Studio as the primary development environment, I leveraged my proficiency in Java programming to implement robust functionality and seamless user interactions.

The application's backbone was powered by SQLite, a lightweight and efficient relational database management system, enabling secure storage and retrieval of user data such as medical records, appointments, and preferences.

Through meticulous design and implementation, I ensured that the application offered a user-friendly interface, intuitive navigation, and responsive performance across various Android devices. Features such as appointment scheduling, medication reminders, and symptom tracking were seamlessly integrated to enhance the overall user experience and promote proactive healthcare management.

This project underscored my ability to conceptualize, design, and deliver impactful mobile solutions while demonstrating expertise in Android development, Java programming, and database management. By addressing the evolving needs of the healthcare sector through innovative technology, the healthcare application exemplifies my commitment to leveraging technology for social good and improving access to essential services.

- **Fitness Website**

In a bid to promote health and wellness, I led the development of a dynamic fitness website using React Native. This cross-platform framework facilitated the creation of a responsive and engaging user interface, accessible across various devices and operating systems. By harnessing React JS's capabilities, I delivered a seamless browsing experience, allowing users to access fitness plans, track progress, and engage with interactive content effortlessly.

- **Game Website**

Driven by a passion for gaming, I spearheaded the creation of a captivating game website utilizing Angular. Leveraging Angular's powerful features and modular architecture, I crafted an immersive platform for gaming enthusiasts to explore, discover, and engage with a diverse array of games. Through intuitive design and seamless navigation, the website provided an enriched gaming experience, fostering community interaction and enjoyment.

- **Project Experience: Real-Time Face Recognition**

In a venture at the intersection of technology and security, I engineered a real-time face recognition system using Java within the Android Studio environment. By integrating cutting-edge libraries such as MKL and TensorFlow Lite, I developed a robust and efficient solution capable of accurately identifying faces in real-world scenarios. This project showcased my proficiency in Java programming, as well as my ability to harness advanced libraries and frameworks to address complex challenges. The real-time face recognition system holds significant potential in enhancing security protocols and streamlining authentication processes across various industries.

- **Emotion Detection System**

In a quest to explore the realm of artificial intelligence and emotion recognition, I embarked on the development of an emotion detection system using Python. This innovative project entailed leveraging machine learning techniques to track and analyze emotions from live video feeds, particularly focusing on team interactions within a window.

Harnessing the power of Python's robust libraries such as OpenCV and TensorFlow, I implemented sophisticated algorithms capable of detecting and categorizing emotions in real-time. By integrating these algorithms with a database management system, I established a framework for storing and analyzing emotion data, facilitating deeper insights into team dynamics and sentiment trends.

This project served as a transformative learning experience, allowing me to delve into the intricacies of machine learning, computer vision, and data management. Through hands-on experimentation and iterative refinement, I honed my skills in algorithm development, model training, and project implementation. Moreover, the project instilled in me a profound confidence in my ability to tackle complex challenges and engineer innovative solutions using machine learning in my future career endeavors.

- **Bus Booking Application**

I led the development of a bus booking application, utilizing React Native for frontend development, Spring Boot for backend infrastructure, and MySQL for database management. Through seamless integration of frontend and backend components, I delivered a user-friendly solution enabling travelers to book tickets, view schedules, and manage itineraries. This project showcased my proficiency in full-stack development and my ability to leverage cutting-edge technologies to drive impactful solutions in the transportation sector.

EDUCATION

Diploma, Tshwane University of Technology: Computer Science (2020-2024)

NSC Matric Certificate, Maadini Institute: IT sales (July 2018).

Volunteering

- Worked as a Gardner in an orphan house

LANGUAGES

- English (Fluent) • French (Native) • Swahili (Native)

PERSONAL ATTRIBUTES

- Solid Interpersonal skills
- self-starter
- Problem Solving
- Adaptability
- Time management
- Deadline driven
- Creativity
- strong written and verbal
- self-confidence
- communication skills
- Leadership Experience
- Great Team Player

SKILLS

- Data pipeline design and development
- Data warehousing, database management and data lake
- Data modeling and ETL processes
- Full-stack application development
- Front-end technologies (HTML, CSS, JavaScript, React)
- Back-end technologies (Flask, Spring Boot,JEE)
- Object-oriented programming languages (Java, Python)
- RESTful API design and development
- Agile software development methodologies
- Cloud-based data platforms (AWS, Azure, Google Cloud)

Social Profile

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References

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