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# Kagiso Setshwane

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## Summary

As a dedicated junior software developer and Information Technology graduate, I am passionate about full-stack development and delivering high-quality solutions across both front-end and back-end systems. My experience includes mobile development and backend, allowing me to contribute effectively to various stages of the development lifecycle. I am driven to leverage my technical skills to create impactful, user-centered applications and support strategic decision-making through insightful and efficient data-driven solutions.

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## Technical Skills

- **Languages:** Dart , Rails, Java, C#, Python,C++ , Javascript, Typescript
  - **Frameworks:** Angular, Node.js, React, Flutter, .Net
  - **Databases:** MySQL , PostgreSQL
  - **Developer Tools:** Visual Studio Code , Android Studio, Xcode, Visual Studio
  - **Project Management:** AGILE, SCRUM
  - **Version Control:** Github, Git, Docker
  - **Platform:** Windows, Linux, MacOS
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## Experience

### AgrigateOne

Junior Software Developer • Sandton, Gauteng

02/2024 - 10/2024

- **FrontEnd Development:** Developed and maintained cross-platform mobile applications using Flutter for seamless user experiences on iOS and Android.
- **Backend Development:** Designed, implemented, and managed backend systems and APIs using Rails, ensuring scalability, security, and performance.
- **Collaboration:** Worked closely with cross-functional teams to deliver high-quality software solutions.
- **Code Reviews:** Participated in code reviews to maintain code quality and share knowledge within the team.
- **Problem Solving:** Troubleshoot and resolved technical issues, optimizing application performance and reliability.
- **Continuous Learning:** Stayed updated on industry trends and technologies to enhance development practices.

### NWU Student Residence

Tutor Assistant • Vanderbijlpark, Gauteng

04/2021 - 11/2022

- Presented an Introduction to Statistical Methods to peers in an after-school program
  - Employed effective communication skills to convey complex statistical concepts.
  - Broke down difficult concepts into simpler terms, ensuring better comprehension
  - Used real-life examples and analogies to make the material more relatable.
  - Analysed student progress and prepared feedback to improve test results.
  - Supported students to reach curriculum goals with tailored coaching style.
  - Utilised technology in tutoring sessions to diversify and enhance learning.
  - Offered subject specialist information, advice and support to learners as part of teaching duties.
  - Examined feedback and made necessary changes to improve practice.
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## Skills

Multidisciplinary teamwork, Programming and design skills, Process development, Adaptability, Good Interpersonal Skills, Detail Orientated, Data collection and analysis, Organizational skills, Communication skills, Collaboration, Android Development

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## Portfolio

- [Linkedln](#)
  - [GitHub](#)
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## Education

### North West University

Bachelor of Science in Information Technology • Vanderbijlpark, Gauteng

11/2023

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## Relevant Coursework

- Database Administration: Database management and optimization
  - Programming Fundamentals: Strong coding experience and problem-solving skills such as Java , Python
  - Data Structures and Algorithms: Efficient data manipulation.
  - Data Analytics: Data analysis and visualization
  - Decision Support System: Data-driven decision-making.
  - Object-Oriented Programming: Software design and development.
  - System Analysis and Design: Business system analysis and design.
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## Languages

English, Zulu, Sotho, Tswana

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## Projects

I completed a significant project focused on eco-power logistics, divided into five mini-projects that aligned with various phases of the Software Development Life Cycle (SDLC). Each mini-project allowed me to apply a structured approach to solving real-world problems:

1. **Requirements Gathering:** Collaborated with stakeholders to define eco-friendly logistics solutions, identifying critical requirements to optimize energy efficiency in transportation.
2. **Design:** Created architecture and design documentation that balanced sustainable practices with logistical constraints, including system and database design to support power-saving algorithms.
3. **Implementation:** Developed software components using C# on Visual Studio, integrating data from energy-efficient sensors to provide insights for logistics routes.
4. **Testing:** Executed comprehensive testing (unit, integration, and system) to ensure the application met the required eco-efficiency standards and performance metrics.
5. **Deployment & Maintenance:** Deployed the solution in a simulated environment and provided maintenance plans, including updates and further optimization strategies based on feedback.

This project not only solidified my technical skills but also enhanced my understanding of sustainable logistics and system development processes. These projects can be found on my [GitHub](#) for further inspection.