



MAPULA MASEKWAMENG

About Me

3rd year BSc In IT Student
living by the quote "you're never
too little to make a change"



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Randburg, Johannesburg

Language

- English
- Sepedi(home language)

Expertise

- Creativity
- Critical Thinking
- Leadership

Education

North West University

Bachelor of Science in Information Technology
2022-2024

Academic Achievements

· Lavaría Ladies DayHouse Top academic achiever placing 3rd in the
Faculty of Natural and Agricultural Sciences amongst the Lavaría Ladies.

University Achievements

- NWU VPC Miss Personality of On-Campus
- NWU VPC FNAS SAC Community Stakeholders and Engagement
sub-committee term 2021/2022
- NWU PC FNAS SAC sub-committee term 2022/2023
- NWU PC LAVARIA DAYHOUSE R&O committee term 2023/2024

Objective

Eager and determined student seeking an opportunity in the technology
department to apply academic knowledge and practical skills.

Problem Solving skills

- The student demonstrates the ability to solve complex problems efficiently by leveraging their strong foundation in programming languages like C#, C++, and Java. They can apply data structures effectively to optimize algorithms and find innovative solutions.
- Adaptability: The student shows adaptability by being able to transfer their knowledge and skills across different programming languages and domains. They can quickly learn new concepts and apply them in various contexts, demonstrating versatility and flexibility.
- Critical Thinking: The student exhibits critical thinking skills by analyzing problems deeply and devising logical approaches to solve them. They can identify patterns, recognize inefficiencies, and propose well-reasoned solutions, especially in areas such as data structures and mathematics.
- Collaboration Skills: While excelling individually, the student also collaborates effectively with peers on group projects or assignments. They contribute their expertise in programming languages and data structures to team efforts, communicate ideas clearly, and coordinate tasks to achieve common goals.

· IT literacy

IT Literacy:

- Proficient in programming languages such as C#, C++, and Java, with a strong understanding of object-oriented programming principles, data structures, and algorithms.
- Experienced in developing software applications and systems, leveraging advanced features and libraries within each language to create efficient and scalable solutions.
- Skilled in implementing and optimizing data structures, including arrays, linked lists, stacks, queues, trees, and graphs, to solve complex computational problems and improve algorithm efficiency.
- Knowledgeable in software development methodologies and best practices, including version control, debugging techniques, and software testing frameworks.
- Familiar with integrated development environments (IDEs) such as Visual Studio, Eclipse, and IntelliJ IDEA, proficient in using debugging tools and code analysis plugins to enhance productivity and code quality.
- Well-versed in mathematics fundamentals, including calculus, linear algebra, discrete mathematics, and probability theory, with the ability to apply mathematical concepts to solve computational and algorithmic problems.
- Experienced in software engineering concepts such as design patterns, software architecture, and modularization, capable of designing and implementing scalable and maintainable software systems.
- Proficient in using development tools and technologies such as Git for version control, SQL for database management, and Agile methodologies for project management and collaboration.
- Continuously learning and staying updated on emerging technologies, programming languages, and industry trends to adapt to evolving IT landscapes and enhance professional skills.

· Public speaking

"You're never too little to make a change," exemplifies the journey of a student who began as the Deputy President of their high school circuit, fostering communication skills and confidence through leadership roles. Excelling in public engagements, they captivated audiences with their charisma and stage presence, winning the Miss Personality category in modeling competitions. Transitioning to college, they continued their leadership trajectory, joining the student academic chapter, where they honed adaptability and versatility in diverse settings. Their innate ability to connect with others fostered inclusive environments, where they inspired peers through storytelling and persuasive communication. Leading with integrity and empathy, they left a lasting impact on their communities, embodying the belief that one's contributions, no matter how small, can spark meaningful change.

Embracing the mantra of "you're never too little to make a change," this student's journey reflects a trajectory of growth and empowerment. From high school leadership to college involvement, they seamlessly blended confidence, storytelling prowess, and inclusive leadership to inspire others. Their journey serves as a testament to the transformative power of individual action, reminding us that every voice matters and every effort counts in shaping a better future.

· Knowledge of [Software]

With a comprehensive understanding of software development, I possess proficiency in a range of programming languages including C#, C++, and Java, augmented by expertise in data structures and algorithms. Through practical application and academic coursework, I have honed my skills in software engineering principles and object-oriented programming paradigms. My ability to leverage these languages extends beyond mere coding proficiency; it encompasses software architecture design, optimization, and problem-solving, allowing me to develop robust and scalable solutions across various domains.

Coursework

Coffeehouse System (C# Assignment)

Developed a comprehensive C# application for a coffeehouse management system as part of a programming assignment. Utilized object-oriented programming principles to design and implement features such as order management, inventory tracking, and user authentication. Employed GUI (Graphical User Interface) elements to enhance user experience and ensure ease of navigation.

Tutor Session (C# Assignment) Conducted a tutor session for fellow students on C# programming concepts and best practices. Assisted peers in understanding fundamental programming constructs, debugging techniques, and object-oriented design principles. Facilitated hands-on exercises and provided personalized guidance to reinforce learning objectives.

Encryption Assignment

- Successfully completed an encryption assignment centered on the implementation of diverse encryption algorithms within a Java environment.
- Explored a range of encryption techniques, including symmetric encryption, asymmetric encryption, and hashing algorithms, to enhance data security.
- Demonstrated adeptness in applying encryption methodologies to bolster the confidentiality, integrity, and authenticity of data during transmission and storage in software applications developed using Java.

Group Assignment: Hotel Management System (C#)

Collaborated with a team as a team leader to develop a comprehensive hotel management system using C# and .NET framework. Contributed to the design and implementation of modules for room booking, guest management, billing, and reporting functionalities. Applied software engineering principles, including requirement analysis, design patterns, and agile methodologies, to ensure project success. Demonstrated effective teamwork, communication, and project management skills throughout the development lifecycle.

Skills Development

Transitioning from the role of Deputy President of the circuit during high school years to becoming a member of the sub-committee of the Faculty of Agricultural Sciences marked a significant growth trajectory for me. Through my tenure as Deputy President, I cultivated leadership skills, honed communication abilities, and fostered a collaborative environment within my high school community. This experience provided a solid foundation for my subsequent involvement in the university setting. Joining the sub-committee allowed me to apply my leadership skills in a new context, contributing to initiatives aimed at enhancing the academic and social experiences of students within the faculty. Additionally, my participation in the R&O committee for 2024 presented an opportunity to advocate for the well-being of fellow first-year students, striving to create a nurturing and supportive environment that fosters a sense of belonging and camaraderie. This journey of growth underscored the importance of adaptability, empathy, and proactive engagement in effecting positive change within academic institutions.