

# SOKOLO MATSOLO

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## Skills

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- C# | Python | Java | Haskell | C++ | pandas | Django | PostgreSQL | MySQL | TensorFlow | Apache Hadoop | scikit-learn | NoSQL | Git
- Artificial life | Cloud Computing | CI/CD | Jupyter Notebooks | Matplotlib | EC2 | Unit Testing | Lambda | OOP | Unity2D | Game Dev
- Computational Intelligence | Deep Learning | Mathematical Modeling | Computer Vision | Data Mining | Agile Methodology – *All proficiency or above*

## Education

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<b>Master of Science</b>	<b><u>University of Johannesburg</u></b>	<i>Johannesburg, RSA</i>	<b>01/2024 – N/A</b>
• Major in Computer Science and Mathematics			
<b>Honours</b>	<b><u>University of Johannesburg</u></b>	<i>Johannesburg, RSA</i>	<b>02/2023 - 11/2023</b>
• Major in Computer Science with AI specialization			
<b>Bachelor of Science</b>	<b><u>National University of Lesotho</u></b>	<i>Roma, Lesotho</i>	<b>09/2016 - 08/2021</b>
• Major in Computer Science and Mathematics			

## Experience

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<b>IT Teacher</b>	<b><u>Reitumetse English Medium School</u></b>	<i>Quthing, Lesotho</i>	<b>09/2021 - 10/2022</b>
<ul style="list-style-type: none"><li>• Developed and presented clear study materials, including practice problems and study guides, in rural environments new to technology.</li><li>• Adapted teaching methods to accommodate diverse learning styles, improving student engagement.</li><li>• Monitored student progress and adjusted teaching strategies to ensure optimal outcomes in technology.</li><li>• Received positive feedback from students for patience, clarity, and effectiveness in teaching technology.</li></ul>			
<b>University CS Students Assistant</b>	<b><u>National University of Lesotho</u></b>	<i>Roma, Lesotho</i>	<b>09/2017 - 12/2017</b>
<ul style="list-style-type: none"><li>• Conducted individual and group tutoring sessions for intro to programming students.</li><li>• Explained challenging algorithmic concepts using toy problems, fostering a more profound understanding.</li><li>• Assisted students in problem-solving and homework assignments, improving their problem-solving skills.</li></ul>			

## Projects

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**SOLVING CVRP WITH SWARM INTELLIGENCE:** Developing various swarm intelligence algorithms to solve a constrained vehicle routing problem.

Link to [YouTube](#)

**DIABETIC RETINOPATHY DETECTION:** Developed a machine-learning model for the early detection of diabetic retinopathy, a common complication of diabetes affecting the eyes. Link to [GitHub](#)

**EVOLVING MUSIC:** Developing a genetic algorithm to evolve musical phrases based on user preferences and constraints. Link to [GitHub](#)

## Certificates

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- Fundamentals of Deep Learning, [NVIDIA](#).
- Intro to Deep Learning, [KAGGLE](#).
- Computer Vision, [KAGGLE](#).
- Intro to Machine Learning, [KAGGLE](#).