

Mangaliso Maduna

Software Engineer

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🌐 <https://www.linkedin.com/in/mangalisom/> 🔗 <https://mangaliso-maduna.github.io/portfolio/>

PROFESSIONAL SUMMARY

Results-driven **Software Engineer and Data Scientist** with expertise in **Python, Machine Learning, and Full-Stack Web Development**. Proven ability to develop **scalable software solutions**, leverage **data analytics for decision-making**, and optimize system performance. Adept at collaborating with cross-functional teams in Agile environments. Passionate about applying **Data Science and Artificial Intelligence** to solve real-world problems. Seeking roles in **Software Engineering, Data Science, and Machine Learning**.

EDUCATION

Bahcesehir University, 08/2017 – 10/2021

Bachelors of Science (Hons) in Software Engineering 🎓

Relevant Coursework: Algorithms, Database Systems, Web Development

University of Johannesburg, 01/2024 – present

Masters in Applied Data Sciences 🎓

Relevant Coursework: Machine Learning, Data Structures, Cloud Computing, Statistical Analysis

PROFESSIONAL EXPERIENCE

ABT Telecoms, *Lead Software Engineer & Mentor* 11/2024 – present | Sandton, South Africa

- Lead the development team, overseeing the architecture, design, and implementation of scalable software solutions.
- Mentor and provide technical guidance to full-stack developer interns, ensuring best practices in coding, debugging, and system design.
- Conduct code reviews and technical workshops to enhance the team's proficiency in full-stack development.

UNIVERSITY OF JOHANNESBURG BUSINESS SCHOOL, 10/2022 – 10/2024

Software Developer & Research Coordinator

Johannesburg, South Africa

- Working with software development and testing team members to design and develop robust solutions to meet client requirements for functionality, scalability, and performance.
- Participate in architecture, design, and implementation of backend features using Python (Django).
- Actively contribute to cutting-edge research, ensuring excellence and innovation in our solutions.

UNIVERSITY OF JOHANNESBURG, 03/2022 – 10/2022

FULL-STACK WEB DEVELOPER INTERN

Johannesburg, South Africa

- Developed an **AI-powered churn management system**, improving customer retention by **20%**.
- Built responsive web applications using **Flask, JavaScript, and Bootstrap**.
- Conducted **data analysis and visualization**, providing insights that enhanced business strategies.

TUVISAI, PYTHON DEVELOPER INTERN

06/2021 – 08/2021 | Istanbul, Turkey

- **Tech Stack:** Python, Optical Character Recognition (OCR), SQL
- **Methodology:** Agile
- Developed game models using Optical Character Recognition (OCR) Technology to extract game information for organizing and maintaining e-sports tournaments.
- Collaborated with peers to identify and resolve issues, analyzed source code, and built databases for web applications

SKILLS

Programming Languages: — SQL, HTML5, CSS3, JavaScript, Python, **Frameworks & Libraries:** — Django, Flask, React, Node.js, Express, Bootstrap | NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, PyTorch, **Databases & Tools:** — Microsoft SQL Server, MySQL, PostgreSQL, MongoDB, Git, **Others Skills:** — Agile Development, API Development, Data Visualization, Cloud Computing, Machine Learning, Deep Learning, Statistical Analysis

CERTIFICATES

- Microsoft Certified: Azure Fundamentals [🔗](#)
- Full Stack Web Development for 4IR
- Engineering Business Systems for 4IR
- 4IR Technologies Bootcamp
- Agile Rapid Skills Acquisition

REFERENCES

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