Nomsa Asekhona Mchunu

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Profile

Enthusiastic and detail-oriented Honours student in Information and Communication Technology (ICT) with a strong foundation in database management, cloud computing, and IT support.
Actively involved in initiatives such as Enactus DUT, where I contributed to community-driven projects that promote innovation, leadership, and sustainable development. I have also gained hands-on experience as a voluntary software developer, developing software solutions to enhance user experience and system performance, and assisting during hackathons as a technical support assistant and timekeeper during presentations. Served as a Resident Floor Representative at my university residence, where I led floor activities, ensured residents' concerns were communicated to the Resident Advisor, and coordinated maintenance or other issues with the relevant representatives and selected as an international delegate representing South Africa at DTU Skylab in Copenhagen, Denmark, through ILambu Global in collaboration with the Embassy of Denmark, reflecting my passion for global collaboration, innovation, and technology-driven solutions. Motivated to continue developing my expertise and professional skills while contributing meaningfully to the ICT and innovation space.

Education

Bachelor of Information and Communication Technology Honours, Durban University of Technology
Feb 2025 – Present
Durban, South Africa

Currently gaining advanced knowledge in Machine Learning, Advanced Cybersecurity, Cloud Computing, Advanced Software Development, Professional Practice, and Research in ICT. Focused on applying analytical and technical skills to real-world ICT problems.

Bachelor's Degree in Information and Communications Technology, Durban University of Technology
Feb 2022 – Dec 2024
Durban, South Africa

Gained knowledge in Machine Learning, Software Engineering, Database Management, Business Fundamentals, Statistics, Calculus, and CyberSecurity. Developed practical skills in Python, SQL, Excel, and data-driven problem solving.

Volunteering

International Delegate, Ilambu Global
Jun 2025 – Nov 2025
Durban, South Africa

- Representing South Africa in an international delegation in Denmark.
- Engaging with global stakeholders, including government institutions and embassies.
- Participating in high-level discussions and collaborations on governance, transparency, and enhancing digital innovation for sustainable development.

Software Developer, JCI Durban
Nov 2024 – Nov 2025
Durban, South Africa

- Developed software solutions aimed at enhancing user experience and improving overall system performance.
- Assisted during hackathons as a technical support assistant and timekeeper during presentations to ensure smooth coordination and technical efficiency.

Member, Enactus DUT

- Collaborated on sustainable development projects aimed at addressing social and environmental challenges.
- Contributed to project ideation, planning, and execution, including business strategy development and community engagement.
- Developed skills in entrepreneurship, leadership, and problem-solving to drive positive social impact.

Skills

- Team Collaboration and Communication
- Analytical thinking
- Problem-solving
- Research Skills
- Data analysis
- Python
- R
- Microsoft Excel
- SQL
- Power BI
- .NET Framework
- HTML/CSS

Certificates

- Data Science and Analytics - HPLife
- Python Essentials 1 - Cisco Networking Academy
- Data Analytics Essentials - Cisco Networking Academy
- Data Analysis - Women Techsters
- Introduction to Cybersecurity - Cisco
- Introduction to IoT- Cisco
- Data Fundamentals - IBM

Awards

DUT Residence Floor Representative, DUT Housing department   Oct 2023
- Led and coordinated floor activities, ensuring residents' concerns were communicated to the Resident Advisor and maintenance issues were reported to the relevant representatives.
- Fostered a supportive and collaborative floor environment through proactive engagement, problem-solving, and effective communication.

Languages

- English

- IsiZulu

References

Zama Khumalo, *Mentor,* JCI Durban
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Isaiah Oluwabunmi Adebayo, *Research Supervisor,* Durban University of Technology
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