

# CEDRICK SEPAELA

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## PROFESSIONAL SUMMARY

Highly motivated Computer Science graduate with honours and also a master's student from the University of Limpopo, skilled in software development, data analysis, and IT support. Experienced in mobile app development, and quality assurance, with research expertise in speech processing and acoustic modeling. Passionate about innovation and solving real-world challenges through technology.

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## EDUCATION

### Master Science in Computer Science

University of Limpopo | 2025-present

### Honours Science in Computer Science

University of Limpopo | 2024

### BSc in Mathematics and Computer Science

University of Limpopo | 2022

### National Senior Certificate

Bataung Secondary School | 2018

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## WORK EXPERIENCE

### Computer Lab Assistant

University of Limpopo | 2023-2024

- Provided technical support to students and faculty, ensuring smooth operation of computer labs.
- Installed and maintained software and optimized system performance.
- Assisted students with troubleshooting technical issues

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## RESEARCH PROJECT

### Influence of isiZulu Speech Using Monophone-Based Acoustic Modeling

- Investigated the integration of isiZulu speech into acoustic modeling using monophone techniques.
- Processed and analysed linguistic datasets to improve speech recognition accuracy.
- Applied statistical and computational methodologies to develop effective acoustic models.

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## CERTIFICATIONS

- Mobile Digital Literacy – Nemisa

- Data Science Foundation – Great Learning Academy

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## ***TECHNICAL SKILLS***

- **Programming:** Python, Java, SQL, C++
- **Frameworks:** React Native, Pandas, Scrum
- **Tools:** Git, Power BI, Visual Studio Code
- **Specializations:** Speech Processing, Software Development, Data Analysis

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## ***PROJECT EXPERIENCE***

### **Mobile Application Development**

- Designed and developed a React Native mobile application with a focus on user-friendly interfaces and database integration.
- Conducted rigorous testing and optimization to enhance app performance and reduce runtime errors.

### **Data Analysis Project**

- Utilized Python and statistical methods to analyse large datasets, providing actionable insights.
- Presented findings to stakeholders, improving decision-making processes.

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## ***REFERENCES***

Available upon request

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