

# BHEKUMUSA ERIC NTSHWENYA

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Location: Johannesburg, South Africa

## PROFESSIONAL SUMMARY

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Software Developer with experience in AI/ML technologies, web development, and mobile applications. Skilled in Python, JavaScript, and various frameworks. Passionate about creating innovative solutions to real-world problems through technology. Strong problem-solving abilities and commitment to continuous learning.

## TECHNICAL SKILLS

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Python   JavaScript   HTML/CSS   React   Django   Flask   SQL   Machine Learning  
TensorFlow   Data Analysis   Git   RESTful APIs   Azure   Blockchain

## WORK EXPERIENCE

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### Teacher / Tutor

*Central Johannesburg TVET College*

September 2023 - Present

- Developed and delivered curriculum for financial services training, including ATM assistance, money management, and bank teller operations
- Created comprehensive learning materials to enhance student understanding of financial concepts
- Provided personalized tutoring to students, improving their comprehension and performance
- Implemented assessment strategies to track student progress and identify areas for improvement

### Data Capturer

*Believers Care Society Academy*

2020 (3-6 Months)

- Processed and managed large volumes of data with high accuracy and attention to detail
- Developed efficient data organization systems to improve workflow processes
- Collaborated with team members to ensure data integrity and consistency
- Assisted with administrative tasks and record-keeping, contributing to operational efficiency

### Technician

*Book Dash*

## 2019 (0-3 Months)

- Provided technical support for events and operations, ensuring smooth execution
- Set up and troubleshoot equipment, resolving technical issues promptly
- Collaborated with team members to coordinate technical aspects of events

## PROJECTS

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### SafeWayAI

*Python, Flet, Google Maps API, Firebase, Machine Learning*

- Developed an AI-powered emergency detection platform that provides safe routes to destinations and detects danger in real-time
- Integrated Google Maps API for route visualization and Firebase for real-time data storage and retrieval
- Implemented machine learning algorithms to analyze route safety based on crime data patterns
- Created user-friendly interfaces for reporting incidents and viewing safety information

### Smart Loan Approval Predictor

*Python, Kivy, Machine Learning, SQLite*

- Built a mobile application that uses machine learning to predict loan approval probability
- Designed intuitive user interfaces for data input and result visualization
- Developed predictive models to analyze user financial data and determine loan eligibility
- Implemented secure data storage using SQLite for user information management

### Eduwize

*Django, Azure Cognitive Services, Python, PostgreSQL*

- Created an AI-powered learning platform that provides personalized study material recommendations
- Integrated Azure Cognitive Services for content analysis and intelligent recommendations
- Developed performance tracking features to monitor student progress and identify areas for improvement
- Implemented resource management system for organizing educational materials

## EDUCATION

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### Software Engineering

*WeThinkCode\_*

2023 - Present

Intensive software engineering program focusing on practical coding skills, problem-solving, and industry-relevant technologies.

**Information Technology and Computer Science (NQF Level 4)**

*Central Johannesburg TVET College*

Expected 2025

**Office Administration (NQF Level 3)**

*Believers Care Society Academy*

2020

**Grade 11**

*City Rand College*

2017

## CERTIFICATIONS & COURSES

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- **ICT Courses (August 2023):** Help Desk Assistant, Data Capturer, Beginner Coder, Call Centre Operator, Computer Basics
- **Hospitality & Tourism Courses (September 2023):** Waitron Basics, Receptionist Basics, Housekeeper, Baggage Porter Basics, Coffee Barista Basics, Communication Skills

## LANGUAGES

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English (Fluent)   Swazi (Native)   Zulu (Native)

## REFERENCES

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**Mr. Alex Iheme** (Employer) - 073 538 2855

**Ms. Julia Norr** (Employer) - 074 464 5588

**Ms. Massana Mabitsela** (Teacher/Educator) - 073 132 8146