

# TAKUDZWA DUBE

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## TECHNICAL SKILLS

- **Programming languages:** Python, JavaScript, C#, SQL
- **Databases:** PostgreSQL, MongoDB
- **Machine Learning:** Scikit-Learn, SciPy, PyTorch, NLTK
- **Visualization:** Tableau, Power BI, Matplotlib
- **Version Control:** Git & Github
- **Cloud Platform:** AWS
- **Sys Admin:** Networking Protocols, Cybersecurity Awareness, Troubleshooting

## WORK EXPERIENCE

### Junior Software Engineer, Intern

#### Premier Knitting

July, 2021 – Aug, 2022

- Built and improved the company's website platform, boosting online sales by 23% and customer experience.
- Fixed website bugs and cut page load times by 32% by optimizing databases.
- Created a mobile-friendly responsive website, increasing user engagement.
- Led transition of old systems to new technologies, enhancing scalability and reducing maintenance by 18%.
- Introduced new team workflows, raising collaboration and productivity by 54%.
- Used machine learning to decrease production defects by 25% and unplanned downtime by 33%.
- Worked cross-functionally to build predictive maintenance systems, minimizing losses.
- Recognized for top data analysis abilities, creating models to optimize costs.
- Learned new technologies through conferences and training, sharing with team to promote innovation.
- Communicated effectively with technical and non-technical teams to understand needs, find solutions, and explain complex ideas.

## PROJECTS

### Security Evaluation Framework for CLOUD BI in SME's in Zimbabwe

- Conducted in-depth analysis to identify potential security vulnerabilities and threats unique to the cloud BI landscape.
- Implemented effective mitigation strategies to safeguard sensitive data and ensure regulatory compliance.
- Developed a structured risk management approach that aligns with SME requirements, providing actionable insights to prioritize security investments and minimize potential risks.
- Established a Python-powered monitoring system for real-time insights into security incidents, enabling proactive measures and continuous protection of cloud BI resources.

### Zimbabwean Sign Language Detection using Action Recognition and LSTM Models

- Engineered an LSTM neural network to predict ZSL gestures in real-time by analyzing key points extracted from video frames.
- Preprocessed and organized a diverse dataset of ZSL gestures, ensuring effective model training and performance evaluation.
- Implemented MediaPipe Holistic to extract 468 facial landmarks and 33 pose landmarks from video frames, allowing accurate representation of signer's gestures.
- Utilized confidence values to filter out uncertain predictions and enhance model reliability.
- Employed landmark rendering techniques to visually analyze and validate the extracted landmarks.
- Developed a user-friendly interface for the real-time detection system, enabling intuitive interaction with the application.

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## EDUCATION

### UNIVERSITY OF ZIMBABWE

BSC HONS DEGREE IN COMPUTER SCIENCE **2.1**

### SAINT PATRICK'S HIGH

ZIMSEC ADVANCED LEVEL **SCIENCES**

## CERTIFICATES

AWS Certified Cloud Practitioner, Udemy 2023

Full Stack Web Development, Udemy, 2023

Machine Learning with Python, freeCodeCamp, 2022

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## REFERENCES

### TAURAI RUPERE

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