

Contact

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Top Skills

- Machine Learning
- Application Development
- Virtual Reality (VR)

Certifications

- Introduction to Cybersecurity
- Introduction to IoT

Qiniso Mthethwa  
Student at Durban University of Technology  
Durban, KwaZulu-Natal, South Africa

Experience

Durban University of Technology  
Student  
(3 years 1 month)  
South Africa

January 2021 - January 2024

Education

Durban University of Technology  
Bachelor's degree, Information Technology · (February 2021 - January 2024)

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## **PERSONAL DETAILS**

**Qiniso Mthethwa**

**Software Developer**

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## **Professional Summary**

Innovative Software Developer with expertise in backend development, web development, and machine learning. Demonstrated history in virtual reality project design and deployment, specializing in creating engaging and practical applications. Known for effective team collaboration, results-driven project outcomes, and strong presentation skills gained through public engagements and industry networking events.

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## **Professional Experience**

### **Software Developer**

*Durban University of Technology (DUT)*  
*June 2024 - Present*

#### **Backend Development (July 2024 - October 2024)**

- Spearheaded the development of a Virtual Reality (VR) environment, using C# with Unity 3D to solve complex backend challenges, resulting in a seamless and interactive user experience.
- Published and managed the project on GitHub, enabling version control and collaborative improvements, such as multiplayer functionality and object placement optimization.
- Developed secure and intuitive login and signup interfaces for enhanced user access, focusing on user-friendly interaction and fluid navigation.

#### **Web Development & Deployment (August 2024)**

- Designed and deployed an online portfolio with Bootstrap, showcasing skills in responsive design and integrating HTML, CSS, and JavaScript.
- Leveraged DevOps practices on GitHub Pages to facilitate real-time updates, enhancing professional visibility for prospective clients and employers.

- Refined UI and UX for the VR project based on user feedback, promoting a cohesive and immersive virtual experience.

### **Frontend Development (August 2024)**

- Created interactive UI elements including login and signup pages, focusing on streamlined user journeys and visually appealing interfaces.

### **Professional Networking and Exposure (July - October 2024)**

- Engaged in industry workshops on personality dynamics through VarsityGenie, refining team collaboration skills.
- Presented projects at key events such as the World of Work showcase and MICT SETA Symposium, enhancing public speaking skills and promoting software development initiatives.

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## **Machine Learning Engineer**

*Honours Research*

*June 2024 - November 2025*

### **Machine Learning Models Development (August 2024 - October 2024)**

- Built a hybrid model for phishing URL detection using scikit-learn, improving dataset integrity with comprehensive data preprocessing.
- Identified 18 crucial features via feature importance analysis, optimizing predictive performance and model precision.
- Achieved a 95.95% accuracy rate with a stacking ensemble model through RandomSearch-based hyperparameter tuning, effectively elevating the model's performance beyond baseline classifiers.

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## **Skills**

- **Programming Languages:** C#, JavaScript, Python, HTML, CSS
  - **Frameworks & Tools:** Unity 3D, Bootstrap, Firebase, Git, scikit-learn
  - **Machine Learning:** Supervised Learning, Feature Engineering, Hyperparameter Tuning, Data Preprocessing, Exploratory Data Analysis
  - **Web Development:** UI/UX Design, Responsive Design, DevOps Practices
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## Education

### **Bachelor's Degree in Information and Communication Technology**

Durban University of Technology | 2021 – 2023

### **Honour's Degree in Information and Communication Technology Durban University of Technology (DUT) | 2024 - Present**

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## Projects

- **Portfolio Website:** Developed and deployed a dynamic portfolio on GitHub Pages, showcasing programming projects and allowing instant updates for potential clients.
  - **Virtual Reality Environment:** Created an interactive VR project with Firebase user authentication, facilitating an engaging and user-friendly experience.
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## References

Available upon request.

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