

CLAUDIOUS TIRIVASHE NHEMWA

Bsc Computer Engineering and Computer Science(Honours)

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EDUCATION

University Of Cape Town

Bsc in Computer Science Honours

Jan 2021 – Dec 2021

Cape Town, South Africa

University Of Cape Town

Bsc in Computer Engineering and Computer Science

Feb 2018 – 2020

Cape Town, South Africa

Grade = 2.1

Westridge High School

High School

June 2012 – May 2017

Harare, Zimbabwe

Computer Science = A Geography = B Mathematics = B

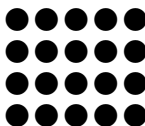
SKILLS

C++, Python, Java, Android ,Unix, Raspberry pi

Machine Learning, React

Django,CSS,HTML,Reinforcement Learning

Photoshop, Microsoft Suite



EXPERIENCE

Freelance Software Developer

May 2022 – current

Cape Town, South Africa

My role included designing and developing web/mobile applications for clients.Developed systems for schools , law firms and other industries.

Mentorship

Facebook

May 2020 – Sep 2020

Remotely

A one on one interaction with facebook engineers with a goal to improve Software Engineering skills and Leadership skills.

Computer Science Tutor

University of Cape Town

Feb 2019 – Nov 2021

Cape Town, South Africa

My role was to help the lecturer in explaining concepts to students and marking exams/tests. I tutored courses such as Introduction to Python, Mobile Programming and Networking/Operating Systems.

PROJECTS

DancelT

- An android application that allows users to save and watch youtube videos using their URL. DancelT is a niche platform for dancers to store videos for their favourite genre. It allows easier searching for dance as it uses a union search which includes location, date and dance name .The project was built using java and Material design Standards.

Environment logger for a terrarium.

- Using a raspberry pi designed a system that measures light intensity and temperature. The information was fed to a microcontroller and displayed on the terminal. The system was designed using python.The environment logger can be controlled remotely and displays results on a mobile app by utilising blink. This allows increasing sampling rate and controlling of the system.

Feature Line Extraction on 3D models

- Implemented the tensor voting Algorithm by Medioni as a traditional method to extract feature lines. The aim of the project was to test the algorithm on Heritage Sites. This solution was implemented for the Zamani project (<https://zamaniproject.org/>) which scans heritage sites around the world for preservation. Python was used to implement the algorithms. The algorithm produces required results and there is room for improvement. For more information visit https://projects.cs.uct.ac.za/honsproj/cgi-bin/view/2021/nhemwa_zwane.zip/index.html.