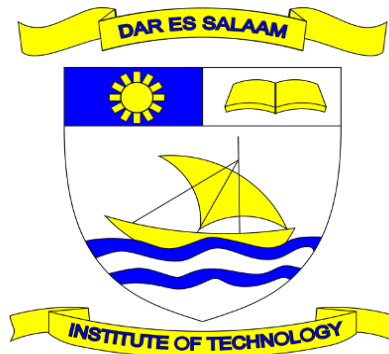# DAR ES SALAAM INSTITUTE OF TECHNOLOGY

INDIVIDUAL ASSIGNIMENT 01

MODULE NAME: DATABASE PROGRAMMING AND ADMINISTRATION.
TITLE   : COU 07502

NAME   : DANIEL M. MSEMAKWELI

REG NO : 2102302228616

CLASS   : BENG21-COE

Qn 1:

The skills I've gained in database programming and administration are like the foundation of a sturdy building. Just as a strong foundation supports the entire structure, these skills provide the backbone for effective web development.

Understanding databases helps me organize and manage information efficiently, making websites run smoothly. It's like having the right tools in my toolbox to create interactive and dynamic web experiences.

Connecting databases to web development is one of the important ways of improving web functionality, and I'm excited to bring this expertise to the world of web development.

Qn 2:

I.   Position: APPLICATION PROGRAMMER ICT OFFICER

According to the given job advertisement, here are the duties and responsibilities that require knowledge and skills of database programming and administration regarding to the Application Programmer position.

- To design, code, and debugging software applications based on various deployment platforms (e.g., web, mobile, desktop etc.), programming languages, database management systems, etc., identification of code metrics, etc.
- To design, code and debugging database systems in various software languages
- To install and configuration of appropriate application servers based on the application programs to be supported
- To train and support of software users for effective utilization of deployed systems
- To assist in troubleshooting and resolving routine software application Problems
- To support, maintain and document software functionality
- To test Software and quality assurance
- To evaluate and identify new technologies for implementation
- To integrate software with existing systems

II. As a web developer the position matches my carrier because I have the skills and experiences that can make me able to perform as listed to the specific position (Application programmer)

Here are the skills and experiences I have gained from my web developer carrier that meet with the duties and responsibilities of application programmer ICT officer mentioned: -

i. I have the working knowledge of various software languages such as C++, .NET, Python, JavaScript etc.

ii. strong knowledge on MS SQL Server MySQL and PostgreSQL Database Management Systems.

iii. I have experience on JSON, XML, and other similar data exchange protocols

iv. I have an advanced knowledge in, CSS & CSS3, jQuery and Responsive Web Design

v. I have strong understanding of the Software Development Life Cycle (SDLC) Methodologies