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EDUCATION

- **Bachelor's degree in Computer and Information Sciences.** **Oct 2021 - Present**
SUEZ CANAL UNIVERSITY **Ismailia - Egypt**
- **Military Status: Exempted**

PROJECTS

- **Orbix**
[github.com/Database-Hosting-Services](https://github.com/rag-nar1/Database-Hosting-Services)
 - Orbix is a Database Hosting Service with BAAS features that help deploy PostgreSQL databases in **1 minute**.
 - An easy-to-use platform requires **0 experience** with features like a **table editor**, **SQL editor**, **schema visualizer**, and **AI chatbot**.
 - Each database is shipped with an API to make accessing data easy, safe, and reliable.
 - Provides a customizable roles system to manage who and how anyone can access your data.
 - **Back-end built using: GO, PostgreSQL**
- **DuckDB TCP Server**
github.com/rag-nar1/tcp-duckdb
 - Designing and implementing a **TCP server** in Go to manage **DuckDB** with support for **OLAP** workload.
 - Constructed a robust communication protocol to handle query transmission, composed of **7 commands**.
 - Authentication with one **super user** for privileged command execution and support for normal users.
 - Authorization using access control at the table level, supporting **2 roles**, **2 database** access levels, and **4 table access levels**.
 - **PostgreSQL** Integration: Each database on the server can connect to **1 PostgreSQL** database and migrate data using the Audit table.
 - **Built using: GO, DuckDB, SQLite, PostgreSQL**
- **Word IN Word Web Application**
github.com/rag-nar1/Word-In-Word-Typing-Site
 - A user-friendly web application designed to create an optimal environment for honing your typing skills.
 - The general goal is to boost your typing speed and accuracy.
 - The main focus revolves around words that focus on the letters you find least accurate in your typing attempts.
 - The database contains over 9000 words.
 - **Built using: Django, JavaScript, HTML, and CSS.**

EXPERIENCE

- IT and mentor Member at ICPC SCU community** **Aug 2023 – Present**
- Mentored more than 500 trainees, conducted informative sessions on competitive programming, and prepared a collection of **20 problems**.
 - Problem Setter at the problem-solving competition **ECPC and the ICPC SCU community**.

TECHNICAL SKILLS

- **Programming Languages and Frameworks:**
GO, Java, Python, C, C++, JavaScript, HTML, CSS, SQL, Django, PostgreSQL, SQLite, DuckDB
- **Concepts & CS related knowledge:**
Object-Oriented Programming (OOP), Data Structures, Algorithms, Problem-Solving, Version Control, Networks, DB (DBMS), OS.

EXTRACURRICULAR ACTIVITIES

- **The Africa and Arab Collegiate Programming Championship 2024 Finalist.**
- Solved **3000+** problems on Algorithms and Data Structures in online judges **Codeforces, Atcoder, and Leetcode**.
- Participated in **100+** online and onsite **Problem-solving** Contests on **Algorithms and Data Structures**.

LANGUAGES

- **English: B2**
- **Arabic: Native**