




Abdelrahman Ali Elnagar

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 Github  Portfolio 📅 Birth date: 1/1/2004 🇪🇬 Nationality: Egyptian

Previous Experiences with Germany

- The **Private-Eye Project Workshop** at **Ulm University** in **Germany** in Feb 2024 about **GDPR, Privacy Technologies and linddun threat model**
- The **HackApp Hackathon** at **Ulm University** in **Germany** in July 2024 about using **MP-SPDZ** to create an application to make benfits of **Multiparty computation**
- **Represented GIU on behave of computer science faculty during**
 - the **German president** visit with 70+ delegate to our university.
 - the International accreditation of GIU in Germany.

Experience

Teaching Assistant, Junior 10/2023 – present
Helped Teaching assistants in teaching Programming 1 & 2 resulting in helping 60+ students in excelling through them. GIU

Private Tutor 08/2022 – present
Teach Math courses including Linear Algebra course beside putting exams and also other courses like Statistics, Database and Theoretical Computer Science for 12+ students cairo, Egypt

Education

BA in Computer Science in major Data Science, German International University 2022 – present
• Rank **in top students among other 300+ student** Cairo, Egypt
• Major in **Data Science** and Minor in **Software Engineering**.

Achievements and Participations


Achievements

- **5th on Egypt** in thanawia Amma Secondary School certificate among more than 700,00 student.
- **3rd** in place at the German International University **Exceed Hackathon “IEEE”**.
- **Top 10** in all university Semester ranks among 300+ students
- **Full Scholarship** at GIU for all the Bachelor years
- **2nd** place in **Neonatal Hydrocephalus** competition in using tech for medical problems among 9 other teams from different universities across egypt.
- Solved 200+ Problems on **Codeforces and leetcode**

Participated in

- The International Collegiate Programming Contest “**ICPC**”
- **Dior-GIU collaboration** implement digital garments in the virtual **VR** and physical world
- **Kaggle’s** Competitions for **ML models** secured the **1st place in 2 competitions**.
- GIU **Privacy-Awareness Hackathon**

Projects

E-Learning Platform, NestJS, MongoDB, Next.js. 
feature-rich E-Learning Platform incorporating adaptive learning modules, performance tracking, real-time feedback, and Biometric authentication. The platform supports role-based access control for students, instructors, and admins, with additional features like quizzes, chat, threads, and personalized recommendations.

Open contribution UI Refactoring, SRS, Figma, React, User Interface analysis

Refactoring the UI of existing governmental User Interface to be chosen by the supreme council of universities in Egypt to be the main user interface for the official website.

Interpreter, (Full customized Programming Language) Compilers, Java, Parsing

customized PL interpreter, gaining expertise in language design, compiler construction, parsing, Design patterns.

“The Last of Us” Game, OOP, java FX, Data Structures, AI Mode

2D Game with many scenes and full gameplay with many characters and special actions.

MPC Football Transfer, MP-SPDZ framework, data sensitivity, LINDDUN, JavaFX, public encryption

Creating a full stack application to secure the Transfers in a MPC system with the MP-SPDZ framework.

Porsche Web Application, NodeJS, React, .Net framework, MongoDB, caching using Redis

Full E-commerce website for Porsche themed products.

Server-Client Chat Application, Java, TCP/IP, Sockets, Multi-threaded

Demo for Operating System,

Java, Process, Memory Management Scheduling Algorithms, Execution Simulation

Smart Home Web Application, NodeJS, React .Net Core MVC architecture, C#

Activities and proud participations

- GIU feedback community member, collecting feedback from **200+ students**
- Interests in data privacy Laws like GDPR and EPL 151
- Reader and love to do researches on different topics

Skills

Proof of Skill

- [UI Design and Software Documentation](#)
- [Data Analysis, Engineering](#)
- [Data Visualization](#)
- [System Design](#)
- [Web Socket](#) (chatting application)

Soft Skills and Language

- Experienced in balancing work and university
- Adapt easily to new environments
- Strong communication skills
- Fast learner and keen observer
- [Languages](#): Fluent in Arabic and English ,German (A2)

Technical Skills

- [Query Optimization](#)
- [Data Engineering and Visualization](#)
- [System Design](#)
- [Languages](#): Python; Java; OOP (Paradigms), C++; JavaScript, TypeScript, C#, MIPS, Julia, R
- [Database](#): SQL, MongoDB, Redis, postgresql, PostGIS
- [Frameworks](#): NestJs, NextJs, NodeJS, Express, React, MP-SPDZ, Hadoop, Spark, Apache Airflow
- [Libraries](#): Vuforia, JavaFX, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn
- [knowledge in](#): Power BI, Tableau, Linux, Data preprocessing techniques, Statistical analysis and Git/GitHub