130 Al Rehab City, New Cairo
Cairo, Egypt

MOHAMED AYMAN
SOFTWARE ENGINEER

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EMPLOYMENT

Software Engineer II   **Nodogoro**   **Dec 2022 – Present**
- Working as a Full stack (MERN) developer with a focus in **Frontend** development for US based clients. (NodeJS React)

Software Engineer   **ITWorx**   **Oct 2021 – Oct 2022**
- Developing full stack web applications using modern development and deployment technologies under the Syngenta Services department. Skills (.Net Core, React, Power BI)

Teaching Assistant (Part-time)   **German University in Cairo**   **Sep 2021 – Feb 2022**
- Taught Computer Science introductory courses (Python programming) to Freshman CS and Business major students.

Software Engineer Intern   **EBS-Lab**   **Aug 2020 - Oct 2020**
- Worked on implementing an Enterprise Resource Planning (ERP) system using the MERN stack. Skills: (NodeJS React)

Computer Science Intern   **Acumen Consulting Egypt**   **Jan 2020 - Feb 2020**
- Worked on modifying the firm's website using WordPress technology as well as the automation of key internal business processes. Tasks included: Transferring domain names, Search Engine optimization.

Undergraduate Teaching Assistant   **German University in Cairo**   **Sep 2017 – May 2019**
- Assisted freshman students in labs of two courses including Introduction to computer science and programming as well as Data structures and algorithms.

EDUCATION

Cairo, Egypt   **German University in Cairo**   **October 2016 – July 2021**
- BSc in Computer Science and Engineering (July 2021).
  -In-major GPA: 1.69 (German Scale – Very Good with Honors) / 3.54 (American scale)
  -Bachelor Thesis titled "Virtual Reality for the visually challenged". Grade: A (Excellent)
- Undergraduate Coursework: Operating Systems; Databases; Algorithms; Data Structures; Programming Languages; Computer Architecture; Calculus; Machine Learning; Data Engineering; Software Engineering.

Cairo, Egypt   **The British School Al Rehab**   **September 2014 - June 2016**
- IGCSE
- Grades: 6 A*, 3 A's, 2 B's -- Overall Score: 97.2%

PROJECTS

Personal Projects
- **Covid Tracker App (2022).** Implemented a simple MERN stack web app that monitors and tracks COVID-19 patients' data around the world.
  Source code: https://github.com/MohamedAyman98/covid-tracker-app
  App URL: https://covidappmoayman.herokuapp.com
- **Goal Setter App (2022).** Implemented a MERN stack web application that enables you to set goals/create to do lists.
  Source code: https://github.com/MohamedAyman98/goals-mern-app

University Projects
- **Left 2 Dead (2020).** Implemented a First-person shooter zombie survival game - a small and modified version of the "Left 4 Dead" game in a team of 6 using Unity game engine (coded in **C#**).
- **Relational Database Management System (2019).** Implemented a Database Engine in **Java.** Included all basic components of a RDBMS using bitmap index for multi-dimensional indices.

- **MERN Stack Web Application (2019).** Implemented a Remote Company Establishment System (RCES) - A web application that digitalizes the tedious process of establishing a company - in a team of 10, following the **SCRUM** approach of agile Software Engineering. The project was submitted in a contest organized by **Sumerge** company where we managed to achieve 3rd place.
- **Chat Application (2019)**. Implemented a chat application using socket programming in **Java**.
- **iEgypt (2018).** A simple web app that allows content creators to share their Egyptian themed artwork, so it can be purchased and used by organizations, using the **ASP.NET MVC** framework.
- **Super Heroes Chess (2018).** An MVC game using **Java** - based on the popular chess board game with additional twists, including a superhero theme and pieces with special abilities.

Extracurricular Activities
- Member of GUC Brain – Data Science Research club (2020)
- Member of Photography committee at The Insider GUC (2019-2021).
- Editor at the Insider GUC (2018-2019).

SKILLS &TECHNOLOGIES

- **Programming Languages:** Java, C#, Python, JavaScript, HTML, CSS, SQL
- *Backend Frameworks:* NodeJS (Express), .NET Core Web API
- *Frontend Frameworks:* React (Expert), Angular (Beginner)
- *CSS Frameworks:* Bootstrap 5 (Expert), Tailwind (beginner)
- *Full web stacks:* MERN stack, .NET MVC, Python Django (Beginner)
- *Database:* Microsoft SQL Server, MongoDB
- *Miscellaneous:* OOP, Git, React Redux, REST API
- *Software/Tools:* Unity, Microsoft Power BI, Postman, MongoDB Compass, MS SQL Server Management Studio, VS, VS Code

LANGUAGES

- **Arabic** (Native); **English** (Fluent); **German** (Elementary, level A2); **French** (Elementary)