**George Raafat**

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**SOFTWARE ENGINEER**

**Back-End Development | Database Management | API and System Design**

Detail-oriented back-end developer with a proven track record of building scalable, secure, and efficient web applications. Skilled in designing robust APIs, managing databases, and leveraging frameworks for optimized performance, Passionate for problem-solving, learning new technologies, and driving software project success through innovation and collaboration.

**WORK EXPERIENCE**

**ALX Software Engineering Internship** - *remote* 02/2023 - 04/2024

Completed a 12-month software engineering program specializing in back-end development provided by ALX Africa.

[Certification](https://intranet.alxswe.com/certificates/en8H5ZG72p)

* Adapted to use new technologies and operating systems such as Linux.
* Learned programming languages: C, Python, HTML, CSS, and JavaScript.
* Developed three full-stack websites using Flask, Next.js, and React.
* Managed databases with MySQL and MongoDB, utilizing ORMs such as Prisma.
* Achieved an average score of 153.7% in Foundations and 123.6% in Back-end Specialization.
* Got an outstanding score of 178.3% for the final project.

**ALX Ventures Engineering | NCI** - *remote* 09/2024 - 11/2024

Freelanced as a backend developer for NCI startup as part of the ALX Ventures "Gig-at-a-Startup" program.

[Certification](https://savanna.alxafrica.com/certificates/h7mr659pEx)

* developed a scalable API for an industry-specific inventory management SaaS application, streamlining clients’ operations across multiple sectors.
* Implemented dynamic, multi-tenant database management scheme using Nest.js and MongoDB, improving data management efficiency and scalability.

**EDUCATION**

**Faculty of Computers and artificial intelligence - Cairo university** 10/2022 - 06/2026

Bachelor of Computer Science

* Level 3 student
* GPA: 3.8

**PROFESSIONAL SKILLS**

* **Soft Skills:** Communication, Teamwork, Time Management, Attention to Detail
* **Programming Languages:** C, C++, Python, Java, HTML, CSS, JavaScript, TypeScript
* **Frameworks:** Flask, Django, Spring Boot, Next.js, Nest.js
* **Databases:** MySQL, SQL Server, PostgreSQL, MongoDB
* **Tools & Technologies:** Linux, Prisma, Git, Docker

**PROJECTS**

**LMS** - *team project* 12/2024 - 12/2024

a web-based application for managing and organizing online courses, and assessments from the perspective of students and instructors.

[Repo link](https://github.com/Ahmed99125/LMS)

**Technologies:** Spring Boot, PostgreSQL, Cloudinary, Git

* Designed database schemas and optimized structure using PostgreSQL.
* Utilized object-oriented programming principles and modular design to ensure maintainability and scalability.
* Integrated Cloudinary for efficient image and media management.

**Doodles** - *team project* 03/2024 - 04/2024

A drawing-sharing web application for sharing and rating drawings.

[Website link](https://doodles-smoky.vercel.app/)

**Technologies:** Next.js, React, Prisma, MongoDB, TypeScript, Tailwind CSS, Cloudinary, Git

* Designed and implemented the backend architecture using Next.js with TypeScript.
* Developed and maintained secure authentication and authorization using NextAuth.
* Managed and optimized database schemas and queries using Prisma and MongoDB.
* Integrated Cloudinary for efficient image and media management.

**Sports Club Center** - *team project* 11/2023 - 12/2023

A web application for managing club activities and tracking players' records.

[Repo link](https://github.com/Mennatalla-Khougha/Sports_Club_Center)

**Technologies:** Flask, HTML, CSS, JavaScript, MySQL, Git

* Designed and implemented RESTful API and backend functionalities using Flask.
* Developed and optimized database schemas and queries using SQLAlchemy with MySQL.
* Designed and implemented a console-based admin interface for database management.