

# George Raafat

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## SOFTWARE ENGINEER

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### 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 about problem-solving, learning new technologies, and driving software project success through innovation and collaboration.

## WORK EXPERIENCE

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### 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.

#### [Certificate](#)

- 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.

#### [Certificate](#)

- 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

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### Faculty of Computers and artificial intelligence - Cairo university

10/2022 - 06/2026

Bachelor of Computer Science

- Level 3 student
- GPA: 3.8

## PROFESSIONAL SKILLS

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- **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

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### 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.

**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.

**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.

**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.