

# Karim Sherif Louis

## Software Engineer

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### Education

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**Bachelor of Computer Engineering and Software Systems** | Ain Shams University | **2021 - Present**  
Credit Hours System | Senior 1 | Cumulative GPA: 3.05

**New Ramses College** | IGCSE System | 99.44% **2007 - 2021**

### Technical Skills

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**Languages:** Java, Python, C/C++, JavaScript, HTML/CSS, php

**Frameworks/Libraries:** React, Node.js, Express, Django, Bootstrap, React Native, Laravel

**Databases:** PostgreSQL, MongoDB, SQL Server, MySQL

**Developer Tools:** Git, GitHub, Docker, Linux

**Testing Tools:** Selenium, Junit

### Experience

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**Information Security Intern at Emirates NBD** **Aug 2024 – Sep 2024**

- Learned about vulnerability assessment and penetration testing.
- I was part of the PCI DSS (Payment Card Industry Data Security Standard) meetings where I learned about the 12 requirements designed to protect payment card.
- Learned about OWASP Top 10 for hardening web applications

### Personal Projects

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**Social Media App** | *JavaScript, Node.js, Express, React, PostgreSQL, Redis, React Native*

- <https://kiwigram-react.onrender.com/>
- Developed a full stack social media application that includes all social media basic operations like posting, liking, commenting, and following, serving React for frontend, Express for backend, and PostgreSQL for data storage, also used the same backend and data storage with React Native to make a mobile app version of the project.
- Developed authentication system using JWT, and a chatting system with web sockets for real time communication, and Redis for caching.

**Vet Clinic** | *php, Laravel, JavaScript, React, SQL Server*

- Developed a full stack vet clinic system, serving React for frontend, Laravel for backend, and SQL Server for data storage.
- The system has two interfaces, one for clients who can make appointments, and another for doctors and employees, so they can manipulate all the data in the database.

**Learning Management System (LMS)** | *Python, JavaScript, Django, SQLite*

- Developed a Learning Management System web application using Django, that facilitates common tasks like course registration, dashboards, gradebooks, and announcements.
- Utilized web sockets and Django channels to create real-time chatting between students and their professors.
- Created MCQ quiz management system where professors can create MCQ quizzes and assign them to specific classrooms, where grades and correct answers are automatically displayed to students after they submit & assignments management systems where students can submit and receive grades and feedback from their professors.

### **E-Commerce Web Application** | *Python, JavaScript, Django, SQLite*

- Developed e-commerce web application using Django web framework. The application allows users to browse products, manage their shopping cart, place orders, and track order status.
- Utilized Django ORM for seamless communication with database.
- Implemented AJAX for real-time sorting and filtering, optimizing user interactions by dynamically updating content, reducing latency, and contributing to a responsive and seamless browsing experience.

### **Fitness Tracking App** | *JavaScript, React, SQLite*

- Developed a mobile app that users can create their own workout one, and track their progress

### **External Courses & Trainings**

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- CS50's Web Programming with Python and JavaScript by Harvard (edX) | [Certificate](#)
- Developing Back-End Apps with Node.js and Express by IBM (Coursera) | [Certificate](#)
- Artificial Intelligence training By We Telecom Egypt