# Mohamed Khattab

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#### Education

### Faculty of Engineering, Alexandria University

Alexandria, Egypt

B.E. IN ELECTRONICS AND COMMUNICATION ENGINEERING

Sep. 2019 - Jul. 2024

# Work Experience

**Enozom** Alexandria

SOFTWARE ENGINEER INTERN

4/7/2023 - 16/7/2023

Developed an immersive multiplayer Snake and Ladder game utilizing Node.js for the backend and React.js for the frontend. Utilized Sequelize
ORM for efficient database connectivity, ensuring smooth data management with MySQL. Real-time communication was achieved through
Socket.io to ensure synchronized gameplay.

**Cyber Talent, Trend Micro** 

Remotly Internship

Cyber Security Intern

July.2022 - Sep.2022

- Familiarity with Web Penetration Testing techniques and their application to secure web applications
- Understanded the Cryptography concepts and their practical use in securing data.
- Acquainted with Network Security protocols and strategies to protect against cyber threats.

#### **Egyptian National Telecommunication Institute**

Remotly Internship

CYBEROPS ASSOCIATE TRAINEE

June.2022- July.2022

- · Gained familiarity with Security Monitoring techniques to identify and respond to security events and incidents.
- · Acquired knowledge in Threat Detection methods and tools to identify and prevent cyber threats in real-time.
- · Understanded common Network Attacks and their prevention strategies to safeguard against cyber threats.

#### **IEEE SSCS Alexandria Branch**

Alexandria , Egypt

FRONT END DEVELOPER

OCT.2021 - OCT. 2022

• Contributed to the development of the IEEE SSCS Alexandria branch Website, utilizing ReactJS and responsive web design practices to create a platform where users can take courses, read articles, explore fields, and apply for events

# **Projects**

#### Diabetic Predictor 🖼

July. 2023

• Developed the Diabetic Predictor Website, An impactful web application leveraging cutting-edge AI and machine learning algorithms to predict diabetes likelihood in patients based on personalized health data. Utilized Flask, Node.js, and React to create an intuitive user interface and ensure seamless functionality. Facilitated efficient data storage and retrieval with Prisma, utilized as the ORM for managing MySQL database operations. Implemented secure authentication using JWT to prioritize user privacy and data protection.

#### Node.js Playground 🖸

May. 2023

- Full-Stack Payment Integration Project: Developed a full-stack Node.js and React app with PayPal and Stripe integration, connected to a MySQL database using Sequelize. Implemented JWT-based user authentication for secure user access and transactions.
- Todo List Application: Developed a Node.js and React app with Prisma for MySQL database connectivity, incorporating JWT-based user authorization.
- **Book App API:** An API that allows users to manage books and stores in a PostgreSQL database. Features include CRUD operations for books and stores, adding books to a store, retrieving all books in a store, and searching for books by title or author.
- Notes App API: A simple API that allows users to manage notes in local memstorage. Features include CRUD operations for notes.
- Authentication system: Built an authentication system using Node.js and Express to handle user authentication and session management.

#### Codeforces-Git-Integration

May. 2023

Tool developed to streamline the management of solutions submitted on Codeforces and synchronization with GitHub. It provides an intuitive
interface for selecting a Codeforces handle, downloading solutions, and uploading them to a GitHub repository.

# Book Store Web App

Apr. 2023

 A web application for managing books in a bookstore, developed using Spring Boot, MySQL, JPA, and Thymeleaf. It allows users to add, edit, delete, and view books in the bookstore. The project features a fully functional backend and a simple UI.

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#### Pintos 🕤

Mar. 2023

• Contributed to the development of PintOS, an open-source instructional operating system kernel developed by Stanford University, by working on the project's two phases as part of a college project. PintOS provides modular projects and complete documentation to introduce students to the major concepts of operating systems development.

## Elevator System G

Jan. 2023

Developed an Elevator System Console App solution that efficiently handles multiple requests from different floors using object-oriented programming concepts and multithreading.

## Parking lot system

Jan. 2023

• Developed a parking lot management system Console App using object-oriented programming concepts and design patterns such as strategy and singleton. The system is capable of handling different sizes of cars and checking for available parking spots. It includes features such as parking spot reservation, automatic ticket generation.

## Problem Solving 🖸

Jan. 2023

- Solve more than 350 problems in Codeforces and LeetCode.
- Implement most of the Data Structures including advances DS such Red Black Trees.

#### Courses\_

#### **Advanced DataBase Systems**

ITI Feb 2023

- Understanded of the fundamentals of database management using SQL Server.
- Covered a range of topics, including database design, entity-relationship diagrams, data mapping, joins, normalization, aggregate functions, ranking functions, constraints, variables, and backup and restore operation.

#### Algorithm part I

Princeton University, Coursera Nov. 2022

• Covered data structure from arrays to graphs, searching algorithms, string algorithms

#### **Computer Network Fundamental**

Jul 2022

• Identified computer networks and its components, comparing between network types according to shape ,topology , area, management, defining the properties of the OSI and TCP/IP model, and Explained the function of each layer of the OSI model and TCP/IP protocols

## **Skills**

- Programming Languages: Java, C++, Python, JavaScript (Node.is, React), TypeScript
- Concepts: Object-Oriented Programming (OOP), Data Structures & Algorithms
- Databases: T-SQL, MySQL, PostgreSQL
- Version Control: Git, GitHub
- Web Development: Node.js, Socket.IO, React
- Operating Systems: LinuxContainerization: Docker

# **Honors & Awards**

2022 **Google Swag**, 30daysofgooglecloud

Online

2023 Finalist, ACM Problem Solving winter Context at Alexanderia University

Online

# **Languages**\_

**Arabic**, native language **English**, fluent

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