Abdelrhman Mersal

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○ https://github.com/DodoLintu108

Profile

Motivated Computer Science student at the German International University in Cairo with hands-on experience in full-stack development and secure application design. I've successfully delivered projects like the Sam Cha Report System and an adaptive E-Learning platform, utilizing technologies such as Next.js, Node.js, MongoDB, JWT, and bcryptjs. My roles as a Software Intern at Sylndr and Teacher Assistant at GIU demonstrate my technical expertise and collaborative spirit in multicultural environments.

Education

German International University in Cairo   2021/09 – 2025/12
Computer Science   Cairo, Egypt

Professional Experience

Software Intern at Sylndr   2025/02 – present
- **Professional Growth:** Gained valuable skills and knowledge in a supportive learning environment.
- **Mentorship and Guidance:** Worked under the guidance of experienced professionals, shaping career paths and enhancing technical expertise.

Sam Cha Report System – One-Time Contract for Restaurant Business   2025/02
Owner: Jaechun Kwon | *Phone*: +1 514 932 7565 | *Email*: restosamcha@gmail.com   Montreal, Canada
Role: Full-Stack Developer (*Contract*)
- **Designed & Developed:** Delivered a comprehensive, one-time reporting system for Sam Cha restaurant to streamline daily operational reporting by staff.
- **Authentication & Security:** Implemented secure user authentication using JWT and bcryptjs with role-based access control to safeguard sensitive employee data.
- **Responsive UI & Mobile Compatibility:** Built responsive Next.js pages that allow staff to submit daily reports (capturing daily summaries, food and beverage sales, labor hours, and customer counts) across devices.
- **Admin Dashboard & Data Analytics:** Developed an interactive admin dashboard featuring real-time charts (via Chart.js) that display weekly trends in labor hours, sales, and customer counts. Key functionalities included filtering, CSV data export, and deletion of outdated reports.
- **Automated Email Notifications:** Integrated Nodemailer to immediately send email notifications to all employees upon each report submission, ensuring prompt communication and transparency.

- **Tech Stack:** Next.js, Node.js, MongoDB, JWT, bcryptjs, Chart.js, and Nodemailer; deployed on Vercel with serverless API routes for robust performance and scalability.

Teacher Assistant   2023/09 – 2024/11

German International University in Cairo   Cairo, Egypt

Supported engineering and pharmaceutical students by teaching foundational programming concepts such as variables, control structures, functions, arrays, and basic algorithm design. Provided tailored guidance using real-world examples—focusing on embedded systems and process control for engineering students and data analysis and simulation for pharmaceutical students.

Projects

Discord Arcade Bot

Developed a bot for Discord that allows users to play classic arcade games such as Tic-Tac-Toe, Snake, and Connect Four. The bot also tracks high scores and allows for friendly competition among users.

Sarcasm Checker

Created a tool using natural language processing and TensorFlow to detect sarcasm in text. The model was trained on a dataset of sarcastic and non-sarcastic comments and can accurately identify sarcastic content in various forms of online communication

Simple Chatting Program

Built a network-based chat application using Java and sockets. The program includes features such as user authentication, message encryption, and a user-friendly interface, serving as a learning tool for network communication and client-server architecture.

E-Learning Platform with Adaptive Modules and Performance Tracking

Developed a feature-rich E-Learning platform using NestJS, MongoDB, and Next.js. The platform offers adaptive learning experiences and personalized performance insights for students, instructors, and administrators. Key features include:

- *User authentication and role-based access control using JWT.*
- *Course management with multimedia uploads, version control, and adaptive quizzes.*
- *Real-time chat, discussion forums, and notifications.*
- *Performance dashboards for students and analytics for instructors.*
- *Security measures such as bcrypt password hashing, RBAC, and data backup.*

Skills

Python ∣ Java ∣ JavaScript ∣ , C++ ∣ HTML ∣ CSS ∣ Bootstrap ∣ API ∣ REST ∣ NodeJs ∣ ReactJs ∣ NextJs ∣ MySQL ∣ SQLite ∣ MongoDB ∣ Git ∣ GitHub ∣ Linux ∣ TensorFlow ∣ Linux ∣ Agile Methodologies ∣ SQLite ∣ NestJ

Languages

English — Native/Bilingual   **Arabic** — Native/Bilingual