

# Rozan Magdy | Backend Developer

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## SUMMARY

Highly skilled in backend techniques with over 4 years of dedicated expertise in crafting and deploying robust web applications. Adept at harnessing the power of NodeJS, MySQL, MongoDB and ExpressJS to create seamless and efficient backend systems. Demonstrated proficiency in collaborating harmoniously within teams, ensuring adherence to demanding timelines. Able to deal with SQL and NoSQL databases. Also, highly skilled in frontend technologies like ReactJS, Bootstrap and tailwind.

## EDUCATION

- Bachelor of Computers and Data Science Alexandria University, Egypt.
- Graduated with an Excellent (H) degree, CGPA 3.83 and ninth of my batch.

## TECHNICAL SKILLS

- NodeJS (ExpressJS, socket.io).
- ReactJS, Redux, JavaScript, HTML, and CSS.
- SQL (PostgreSQL - MySQL - MSSQL).
- Git (GitHub).
- RESTful APIs.
- Cloud Service Providers (Vercel).
- Unit Testing using (Jest).
- Object Oriented Programming.
- Data Structure and Algorithms.
- Agile/Scrum Methodologies.
- Java, Python (Flask framework).
- SCSS, Bootstrap and Tailwind.
- NoSQL (MongoDB - 'Mongoose' - Redis).
- API Testing (Postman).
- Microservices and Nginx.
- Docker.
- Problem Solving and Decision Making.
- Design Patterns.
- UML (Unified Modeling Language).

## WORK EXPERIENCE

### Teacher assistant | 2023 - Present

- Teacher assistant at the Faculty of Computers and Data Science at Alexandria University in Egypt.

### Sprints Company | Full Stack Developer | 2019

- Developing and maintaining web applications using the MERN stack. Writing a clean, reusable, and scalable code.

### Upwork Freelance | MERN Stack Developer | 2018

- Working with clients to develop and implement web applications using the MERN stack resulting in a 30% increase in system performance.

### Hacker Rank Campus Club | 2021

- Participated in the IT community campus.

## LANGUAGES

Arabic (Native)

English (Fluent)

# PROJECTS

## Fingerprint Detection System (Graduation Project)

- This software was developed to focus on criminal laboratory institutions. When crimes occur, the expert put the fingerprint on a tap and waits for another expert to identify this fingerprint. Our system can only take the image of a fingerprint and will match it with the database to get the owner of a fingerprint, if not match with any person in our database the software also can predict some information about the owner like gender, hand, and finger position. This software will help governments 100% in their works with crimes.
- The technique used for matching is called SIFT Algorithm (computer vision technique) and for estimating information about fingerprint we used 3 deep learning CNN models. For the application the RESTful APIs developed using Node.js and Express.js. The database was developed using MongoDB. The frontend was developed using ReactJS. And the connection between Python and Node.js using Child process.

## Blood Donation Application

- Developing RESTful APIs using Node.js and Express.js. Created and maintained a database using Mongoose. Deployed the application to Vercel.
- This application is serverless and real-time contains a chat app, WebSocket, and utilizes Sendinblue mailer service. The primary aim of this application is to quickly help individuals who urgently require blood donations.

## E-Commerce Application

- Developed RESTful APIs using Node.js and Express.js. And developed the database using MongoDB. Deployed the database in Mongo Atlas and the source code to Vercel.
- This application is serverless, contains an administration panel and has 100% of the functionalities of an online store (CRUD operations). Utilized Sendinblue mailer for the mail service.

## Chat Application

- Developed by a MERN stack technologies by creating RESTful APIs using Node.js and Express.js. Created database using Mongoose. Created the frontend using ReactJS, Bootstrap and SCSS. Deployed the API and frontend source to Vercel. Deployed the database in Mongo Atlas.
- This application is responsive, serverless and real-time which make users able to start chatting and sending messages using Socket.io.

## Clinic Application

- Participated in 50% of this project in developing RESTful APIs using Node.js and Express.js. Created and maintained a database using PostgreSQL. Deployed the source code and the database to Vercel.
- Crafting a serverless application dedicated to managing doctors' schedules and facilitating patient reservations. Leveraged Sendinblue mailer service for seamless email communications. Instrumental in constructing an admin panel empowering doctors with application management capabilities.

# CERTIFICATIONS

- Node.js Certification | Udemy.
- Full Stack Web Development Certification | Sprints.
- Web Development Professional Track Certification | Udacity.
- Workshop Certification | BEDO.
- Students Activity Certification | Hacker Rank.