

# Kerolloс AbdulMasih

Backend Developer (Node.js | Express | MongoDB | SQL)

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## Profile

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Backend Developer with solid experience in building **RESTful APIs**, handling authentication, and managing databases using **Node.js**, **Express**, and **MongoDB/MySQL**. Strong background in SQL and data workflows gained from Data Engineering training, enhancing ability to design optimized backend logic and data-driven systems. Passionate about scalable server-side development and clean, maintainable code.

## Education

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**Faculty of Computers and Artificial Intelligence, University of Sadat City,**  
With 3.23 GPA

10/2020 – 06/2024  
Sadat City, Egypt

## Skills

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**Backend Development:** — Node.js (Express.js), RESTful APIs | MongoDB, Mongoose, MySQL (Database Design, Joins, Indexing) | Authentication (JWT), CRUD Operations | MVC Architecture, Error Handling, SOLID Principles | Git & Version Control

**Data Skills** — SQL Query Optimization, Data Modeling | Python for Automation & ETL | Basic Machine Learning knowledge for smart backend integration (Random Forest, Logistic Regression)

**Tools & DevOps** — Git, GitHub | Postman | AWS Cloud | Docker (basic)

## Experience

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### Backend Developer (Military Service),

Future of Egypt Authority for Sustainable Development ↗

Present

Cairo, Egypt

- Developed an **internal HR System** on a **local secure network** to manage soldier data and daily operations.
- Built **RESTful APIs** using **Node.js** and **Express.js** for data creation, updates, and authentication.
- Designed and optimized **MySQL databases** and implemented **JWT-based access control**.
- Added features for attendance, leave, and performance tracking to automate HR workflows.

**Technologies:** Node.js, Express.js, MySQL, REST API, Git

### CodeClause – Data Science Intern

08/2023 – 09/2023

- Developed Python scripts for data preprocessing and cleaning.
- Built small-scale ETL pipelines to automate data handling.
- Collaborated with the team to optimize backend workflows

### AI Intern, National Telecommunication Institute (NTI)

07/2023 – 08/2023

Learned and applied fundamentals of **artificial intelligence** and **data modeling**.

## Projects

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### API Development with Node.js (in progress)

- Designing RESTful APIs for managing users and products.
- Implemented CRUD operations and database integration with MySQL

### Eligibility Prediction for Loan

- Developed a machine learning model using Python to predict loan approval likelihood based on customer financial data.
- Handled data preprocessing, feature encoding, and model optimization with Random Forest and Logistic Regression.

## Courses

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**Node.js, Express, MongoDB & More:**, *The Complete Bootcamp 2024 – Jonas Schmedtmann*

**Data Engineer Track**, *DataCamp*

**IBM Data Science Professional Certificate**, *(IBM)*

**Web Development**, *FWD (Challenger Track)*

## Certificates

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- Web Challenger Track (fwd)
- Associated Data Engineer (DataCamp) 
- AWS Academy Graduate - AWS Academy Cloud Foundations 
- Databases and SQL for Data Science with Python 
- Supervised Machine Learning: Regression and Classification 
- Technical Support Fundamentals 

## Languages

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- English: (Intermediate)
- Arabic (Native)