

Kerollos AbdulMasih

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

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Profile

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

Faculty of Computers and Artificial Intelligence, University of Sadat City, 10/2020 – 06/2024
With 3.23 GPA Sadat City, Egypt


Skills

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

Backend Developer (Military Service), Present
Future of Egypt Authority for Sustainable Development  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

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

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

- 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

- English: (Intermediate)
- Arabic (Native)