

# Kerollos AbdulMasih

## Backend & Data Engineer (Node.js | Python | SQL)

✉ kerolloss@gmail.com    Kerollos AbdulMasih    01208988956    Alexandria, Egypt

### PROFILE

Backend & Data Engineer with a strong foundation in **Node.js, SQL, and Python**. Skilled in building RESTful APIs, managing databases, and developing **data pipelines** for analytics and machine learning projects. Certified Data Engineer with hands-on experience in data preprocessing, ETL workflows, and backend logic. Passionate about creating scalable systems that bridge software engineering and data engineering.

### SKILLS

#### Backend Development:

- Node.js (Express.js), RESTful API Development
- Databases: MySQL, PostgreSQL
- Authentication & CRUD operations
- Git, Version Control, Clean Code

#### Other:

- Time Management, Problem-Solving, Team Collaboration


#### Data Engineering

- SQL (Joins, Indexing, Stored Procedures, Optimization)
- Python (Data Preprocessing, Automation)
- Data Modeling, ETL Pipelines
- Machine Learning basics (Random Forest, Logistic Regression)


#### Cloud & Tools


- AWS Cloud (Cloud Foundations Certified)
- Docker (basic)


### EDUCATION

2025 – present	<b>Self-Study</b> Backend Development (Node.js Path)
02/2024 – 02/2026	<b>DataCamp</b>  Certified as an Associate Data Engineer
10/2020 – 06/2024 sadat city, Egypt	<b>Faculty of Computers and Artificial Intelligence, University of Sadat City</b> With 3.15 GPA


### CERTIFICATES


Associated Data Engineer (DataCamp) 

Become a Data Analyst 

Databases and SQL for Data Science with Python 

Web Challenger Track (fwd)

Technical Support Fundamentals 

Supervised Machine Learning: Regression and Classification 

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## PROJECTS

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### Database for Tech Company

Creating Relational Database Model for Tech Company Contain All Critical Information

### Eligibility Prediction for Loan

- Predicted loan eligibility using Random Forest Classifier.
- Implemented preprocessing, hyperparameter tuning, and model evaluation (ROC curve & AUC).

### Insurance Upgrades for Travel Assured

- Cleaned and corrected customer data for a U.S.-based travel provider.
- Prepared datasets for a targeted insurance promotion campaign.

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

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

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## COURSES

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### Node.js, Express, MongoDB & More:

The Complete Bootcamp 2024 – Jonas Schmedtmann (in progress)

### The Complete JavaScript Course 2024

From Zero to Expert! – Jonas Schmedtmann

### Data Engineer Track

DataCamp

### IBM Data Science Professional Certificate

(IBM)

### Web Development

FWD (Challenger Track)

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## INTERSHIPS

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08/2023 – 09/2023

### CodeClause – Data Science Intern

- 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

08/2023 – 09/2023

### CodSoft - Data Science Intern

- Applied data preprocessing techniques to real-world datasets.
- Assisted in exploratory data analysis and feature engineering.
- Contributed to machine learning model preparation.

07/2023 – 08/2023

### NTI

Artificial Intelligence internship at National Telecommunication Institute

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## LANGUAGES

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- English: Intermediate (B2)
- Arabic (Native)