



# NOURELDIN MOHAMED

## SOFTWARE ENGINEER

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 Nouredin Mohamed | LinkedIn |  Nouredin Mohamed | GitHub

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## PROFILE

Passionate about Data Science and Software Development, I'm driven by curiosity and a love for innovation. With a strong interest in leveraging AI for problem-solving, I demonstrate dedication to continuous learning and growth in these dynamic fields.

**Military status: Exempted**

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## EXPERIENCE

### MADKOUR – Full stack developer

Apr 2023 – Present

- Junior Full Stack Developer in a newly established department, tasked with crafting and deploying a comprehensive organizational system using ERPNext and Frappe frameworks.
- Responsibilities encompass diverse aspects of software development and system integration.
- Valuable experience gained in working on electricity and water meters, utilizing ERPNext, Node-RED, and ThingsBoard for efficient data management and monitoring.
- Contributions to seamless integration of systems, enhancing functionality and usability.
- Under the guidance of my manager, led the development of a mobile payment application, enabling users to conveniently recharge their electricity and water meters directly from their smartphones.

### ERPCloud Systems – Backend developer

Nov 2022 – Apr 2023

- Designed and generated SQL reports for diverse clients utilizing ERPNext's extensive database.
- Optimized SQL queries to improve the performance of existing reports.
- Developed and implemented API endpoints for ERPNext's initial mobile application, NextApp, successfully adhering to a rigorous release schedule.
- Customized module behavior on both client and server sides within the ERPNext ecosystem.

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## DIPLOMAS

### Epsilon Ai – Certified Data Scientist Professional

Nov 2022 – Oct 2023

Participated in a comprehensive data science internship covering Python programming, web scraping, databases, mathematics, exploratory data analysis, data visualization, machine learning, software engineering, and career advancement. Executed real-world projects and a capstone project, showcasing practical skills in each module.

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## EDUCATION

### Faculty of Computer science, CS

2017 – 2022

Modern Science and Arts University (MSA)

Egypt

### Faculty of Computer science, CS

2017 – 2022

University of Greenwich

United Kingdom

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## LANGUAGES

Arabic

Native

English

Very good

## SKILLS

- Python
    1. Pandas
    2. NumPy
    3. Plotly
    4. Seaborn
    5. Matplotlib
  - SQL
  - NodeJS
  - Frappe
  - MariaDB
  - PostgreSQL
  - MongoDB
  - CSS
  - ERPNext
  - ERP Developments
  - Express
  - C#
  - C++
  - Java
  - Jira
  - Node-Red
  - Thinksboard
  - PowerBi
  - Docker
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## CERTIFICATES & COURSES

**AI – Huawei** 2020

Successfully completed the Huawei certification requirements.

**Android – Instant software solutions** 2020

Successfully completed the android course supported by UFCI.

**Certified Data Scientist Professional – Epsilon AI** 2022 – 2023

I Have Successfully Completed the Requirements to be recognized as a Certified Data Scientist Professional

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## PROJECTS

### **Lung cancer prediction and detection.**

Developed a diagnostic system for early lung cancer detection, classifying malignant, benign, and normal cases using machine learning.

### **Data Analysis for Age Dataset**

Analyzed and preprocessed a historical dataset of 1.22 million records, extracting insights about life, work, and death patterns.

### **Data analysis and data preprocessing for Bank dataset.**

I've done analysis, data engineer and data visualization for that dataset.

### **Credit Risk Analysis and Clustering**

Combined unsupervised learning with logistic regression to improve risk assessment and customer acquisition strategies for a credit card company.

### **Loan Default Prediction**

Applied machine learning to predict loan defaults using a dataset of 255,347 rows and 18 columns, enhancing skills in data modeling and predictive analytics.

### **Grocery shop using C#**

Developed a C# application for grocery shopping, allowing admin management of inventory and users to add items to a cart and purchase them.

### **School management system using Java**

Created a Java-based system for managing school operations, enabling teachers to add exam schedules and track student performance.

### **3D game using C#**

Built a 3D game in C# featuring a cube navigating over other cubes, focusing on interactive gameplay and 3D environment design.

### **Real-Time Weather Dashboard using Python and Flask**

Built a real-time weather dashboard using Python and Flask, integrating with a weather API to display current temperature, humidity, and conditions. Enhanced skills in web development, API integration, and data visualization.