**Omar Nour**

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**Senior Data Engineer**

**ETL | Data Governance & Wrangler**

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| **Data Cleansing & Analysing,**  **Data Integration, Statistics, ETL, Database Design**  **Full Stack Development,**  **Research & Development,**  **User Training and Support,**  **PL/SQL, Python, R, Django,**  **Oracle 9i-11g,**  **MongoDB**  **Parallel Computing**  **Troubleshooting,**  **Financial/Accounting** | Technical sophisticated IT professional with excellent analytical and organisational skills, hands on experience with SQL and NoSQL based systems development, which includes system analysis, system designing, debugging, defect fixing, testing, application performance analysis and deployment.  Expertise in the application of oracle 9i-11g and ETL tools. Demonstrated ability to deliver results and provide excellent technical support to information technology organisation and its customers.  Proficient developer and keen learner with strong statistical analysis skills.  **DataCamp** profile: <https://www.datacamp.com/profile/omarnour>  **GitHub:** <https://github.com/OmarNour> |

**PROFESSIONAL EXPERIENCE**

**Teradata -** Cairo, Egypt Oct. 2018 - Present

**ETL Site Lead**

Working on a DWH project for the Egyptian government, the aim of the project is to facilitate a citizen 360 view by collecting data from all available sources across the republic.

**Responsibilities**:

* Capture ETL Requirements.
* Design, develop, and test processes for:
  + - Extracting data from legacy systems or production databases.
    - Validating and conditioning data prior to loading into a data warehouse.
    - Loading initial and cyclical data into a data warehouse.
* Design the processes to meet service level agreements for data timeliness and frequency.
* Determine which data elements are historic and the retention period for historic data.
* Determine data growth trends and peak business periods.

**Knowledge Net -** Cairo, Egypt Aug. 2009 – Sep. 2018

**Senior Data Engineer** (2016 - 2018)

Working on [data cleansing product](http://kn-it.com/datability-ninety-x/) using Three major ETL tools **IBM Datastage**, **Talend** and **Informatica Power Center**, develop and maintain databases across the organisation, sustain the ongoing development of technical best practices for data movement, data quality, and data cleansing, understands the range of options for common ETL design techniques such as change data capture, key generation and optimization and other ETL-related activities.

* Consulted with clients to provide technical support, exercised hands-on approach in data stage development, architected, designed, and developed ETL recommendations.
* Developed and executed tests on all data stage jobs, provided production support to all procedures. Coordinated with technical staff to develop relational and secondary databases.
* Scheduled all data stage tasks, analysed performances and work with capacity planning. Adept at data cleansing tools.

**Oracle Team Leader** (2013 - 2015)

* Contributed to overall customer satisfaction by ensuring the database team well trained, and the database information is up to date and accurate and performed additional development task as necessary across a broad range of systems and technologies.
* Organised all bottom-line factors including backend development with PL/SQL and other data tools in an Oracle 11g, executed plan for dealing with data anomalies against criteria.

**Senior Oracle Developer** (2009 - 2012)

* Collaborated with cross-functional teams to enhance developing standards, achievement of targeted goals, analysed and fixed issues in application services-based SQL server.
* Liaised with developers to improve applications and established best practices, gathered user requirements and identified new features with technical and training manuals development.
* Managed, implemented and tested applications, highly expert at software applications such as JIRA, SVN configuration, assisted to update project codes and documents

**IT Worx -** Cairo, Egypt Aug. 2008 – Aug. 2009

**Oracle Developer**

Handled database usage issues and malfunctions researched and suggested new database products, services, and protocols, performed general technical trouble shooting and provided consultation to development teams.

**Informatique -** Cairo, Egypt Aug. 2006 – July 2008

**Oracle Developer**

Implemented Oracle 10g Payroll's core payroll engine, monitored payroll processes end-to-end reconciled errors while maintaining current calculations. Directed simultaneous processing of multiple groups of employees to reduce administrative costs with online paperless payslips.

**NCS -** Kuwait April 2006 – July 2006

**Oracle Developer**

Streamlined administrative processes, built transactional database applications through Oracle's pre-packaged applications. Utilised oracle9i developer skills to develop HR applications.

**TECHNICAL PROFICIENCIES**

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| ***Languages:***  ***Frameworks/Libraries:*** | Python, R, Java, PL/SQL, HTML  pyArrow, Dask, Pandas, SQLalchemy, pySpark, Django, Flask |
| ***Databases/Storages:*** | Teradata, Parquet, Oracle, SQL server, MongoDB, Postgres, Neo4j |
| ***ETL Tools:***  **Analytics/Dashboard:** | IBM Datastage, Informatica, Talend, ODI  Tableau, Microsoft Excel |

**Education**

**B.Sc. Computer Engineering**, Concentration in Electronics  
Arab Academy for Science and Technology and Maritime Transport, Alexandria, Egypt.

**courses and Certifications**

* [Coursera](https://www.coursera.org/user/12b690997be193816a4c2c58c2016beb):
  + [Big Data Integration and Processing](https://www.coursera.org/learn/big-data-integration-processing/home/welcome) (InProgress)
  + [Big Data Modeling and Management Systems](https://www.coursera.org/account/accomplishments/certificate/GJ6R6Y6GE8LH)
  + [Introduction to Big Data by University of California San Diego](https://www.coursera.org/account/accomplishments/certificate/QAZV9NLG2JPJ)
* [DataCamp](https://www.datacamp.com/profile/omarnour):
  + Introduction to PySpark (In Progress)
  + Cleaning Data in Python
  + Importing Data in Python (Part 1)
  + Importing Data in Python (Part 2)
  + Intermediate Python for Data Science
  + Intro to Python for Data Science
  + Intro to SQL for Data Science
  + Introduction to Databases in Python
  + Manipulating DataFrames with pandas
  + Merging DataFrames with pandas
  + Pandas Foundations
  + Parallel Computing with Dask
  + Python Data Science Toolbox (Part 1)
  + Python Data Science Toolbox (Part 2)
* Udacity:
  + [Data Structures & Algorithms in Python](https://eg.udacity.com/course/data-structures-and-algorithms-in-python--ud513)
  + [Data Wrangling with MongoDB](https://eg.udacity.com/course/data-wrangling-with-mongodb--ud032)
  + [Data Analysis with R](https://eg.udacity.com/course/data-analysis-with-r--ud651)
  + [Intro to Statistics](https://eg.udacity.com/course/intro-to-statistics--st101)
* Udemy:
  + [Python Web](https://www.udemy.com/certificate/UC-OH6SA8K1/)
  + [Python and Django Full Stack Web Developer](https://www.udemy.com/certificate/UC-IIWNC8HR/)
* Feb 2016 IBM training from [TechData Academy](https://academy.techdata.com/eg/vendor/ibm/training/)
  + IBM Information Analyser Essentials V11.5
  + IBM infosphere DataStage Essentials V11.5
  + IBM infosphere DataQuality Essentials V11.5
* April 2013 to June 2013 ETL training from [datability.com](http://datability.com/)
  + Data warehousing concepts
  + ODI (Oracle Data Integrator 11g)
* November 2005 to March 2006 Oracle developer 9i (SQL, PL/SQL, FORMS and REPORTS). At ITI
* Oracle Certificate Professional (OCP) (Developer 9i). 2008
  + 1Z0-007 Introduction to Oracle9i: SQL
  + 1Z0-147 Program with PL/SQL
  + 1Z0-141 Oracle Forms Developer: Build Internet Applications

**projects**

* **Data cleansing solution using MongoDB, Parquet and Python libraries like Pandas, PyArrow, Dask and SQLAlchemy.**

Github: <https://github.com/OmarNour/data_cleansing>

* **Accounting web application using Django**,

Github: <https://github.com/OmarNour/AccountingProject>