

## Jorge Luis Torres Moreno

Analytics Engineer.  
*deMon2k* collaborator.

## Contact:

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GitHub: <https://github.com/JorgeLTM-cob>.

## Summary.

An experienced programmer with a passion for problem solving, developed sophisticated coding skills during the Mexico City Informatics Olympiad. His enthusiasm for acquiring new abilities has allowed him to be able to provide creative and novel solutions to the user's most complex needs.

Familiar with working in international environments: studied in the *Technische Universität München* in Germany and has been contributing in the development of the quantum chemistry software *deMon2k* since 2014.

## Skills.

- |           |                |                    |                            |
|-----------|----------------|--------------------|----------------------------|
| • C/C++   | • Python       | • DB2 and MySQL    | • English (advanced)       |
| • COBOL   | • SQL          | • awk              | • Spanish (native speaker) |
| • FORTRAN | • Shell Script | • Microsoft Office | • Windows and Linux        |

## Experience.

**Analytics Engineer** - *CINVESTAV*. Mexico City. (01/2018 – Present)

- Produce, redesign and refine code for *deMon2k*. **The upgrading of the 80% of the current tools** to examine magnetic properties is an outstanding result of this task.
- Obtain large data sets and analyze them by quantitative and qualitative methods looking for patterns and tendencies.
- Build methods to simplify the extraction of information and the design of different types of graphs.

**Code internship** - *CINVESTAV*. Mexico City. (04/2014 – 04/2017)

- Implemented a **new subprogram** in *deMon2k* to study magnetic properties.
- Performed statistical analyses to the results given by *deMon2k* to determine the efficacy of some of its modules.
- Automated mechanisms for data collection in different sorts of files.

## Certifications.

- **Data analyst** (<https://capacitateparaeempleo.org/verifica/ynilcow1f/>).
- **Big data viewer** (<https://capacitateparaeempleo.org/verifica/w4w74zodq/>).
- **Object oriented programmer** (<https://capacitateparaeempleo.org/verifica/2kxabsyia/>).
- Is constantly updating his knowledge and skills, all his certificates can be found here: <https://github.com/JorgeLTM-cob/Certifications>

## Awards & acknowledgements.

- **Exchange program scholarship** (*Technische Universität München, Germany*).  
Succeeded in **graduate subjects** due to a showcase of knowledge and dexterity for **parallel programming and computational data analysis**.
- **First place in UNAM's Visual Basic programming contest**.
- **Silver medal at the Mexico City Informatics Olympiad**.

## Education.

- **Major in Technology** - *Universidad Nacional Autónoma de México*.  
Trained in a high level of knowledge in programming and mathematics.
- **Technical Major in Computation** – *Universidad Nacional Autónoma de México*.  
Demonstrated remarkable skills in software development projects.