René Zurita Corro | Applied Mathematician

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Academic

Mathematics Research Center (CIMAT) — **Guanajuato, Gto.**
Master's degree, Applied Mathematics — *2009 – 2011*
Grade expected.

Technological University of the Mixteca (UTM) — **Huajuapan de León, Oax.**
Bachelor's degree, Applied Mathematics — *2003 – 2008*

Experience

Professional

Veureka FVP — **Huajuapan de León, Oax.**
Data Engineer — *Ene 2019 – Presente*
Data analysis and sysadmin, *Firebase*, *pandas*.
- Evaluation of booking management providers data structure: Travolucionary, HotelDO, Rate-Hawk, Hotelbeds, Jumbobeds, etc.
- Analys of booking management data.
- Design, implementation and maintenance of ETL from booking management providers to *Firebase*.

Veureka FVP — **Huajuapan de León, Oax.**
Software developer — *Ene 2018 – Dic 2018*
Proof of concept: Payments and transactions using fiat and crypto currencies (Stellar).
- Design a payments reward system incorporating *Stellar*, *SPEI* and *OpenPay*.
- Leading technical team members in implementing services for a payments reward system using fiat and crypto currentices.
- PO of payments reward system's web app.

Veureka FVP — **Huajuapan de León, Oax.**
Software developer — *Ene 2017 – Dic 2017*
Proof of concept: Setup public and private blockchain networks, *Ripple* and *Stellar*.
- Lead investigation and evaluation of available blockchain API protocols.
- Setup nodes available public prod and test networks for *Ripple* and *Stellar*.
- Lead private network setup for *Ripple* and *Stellar*.

Veureka FVP   **Huajuapan de León, Oax.**
Software developer   *Feb 2014 – Dic 2016*
Software project development with optimization components in *Java*.
- o Adaptation design and implementation of constraint problem solvers for:
    - Resource allocation.
    - Time allocation.
- o Leading technical team members creating a service encapsulating constraint problem solvers.

Colegio de Bachilleres del Estado de Oaxaca   **Oaxaca de Juárez, Oaxaca**
External Consultant   *2014*
Specialized Mathematics courses for the *COBAO*'s representative for the *XXIII Encuentro Académico, Cultural y Deportivo de la Zona Sur-Sureste* contest, first place obtained.

Colegio de Bachilleres del Estado de Oaxaca   **Oaxaca de Juárez, Oaxaca**
External Consultant   *2013*
Specialized Mathematics courses for the *COBAO*'s representative for the *XXII Encuentro Académico, Cultural y Deportivo de la Zona Sur-Sureste* contest, first place obtained.

Colegio de Bachilleres del Estado de Oaxaca   **Oaxaca de Juárez, Oaxaca**
External Consultant   *2012*
Specialized Mathematics courses for the *COBAO*'s representative for the *XXI Encuentro Académico, Cultural y Deportivo de la Zona Sur-Sureste* contest, first place obtained.

Instituto Mixteco de Educación Superior   **Tezoatlán de Segura y Luna, Oaxaca**
Professor   *2008 – 2009*
Courses I taught :

- o Informatics I (64 teaching hours).
- o Informatics II (64 teaching hours).
- o Elementary Mathematics (80 teaching hours).
- o Mathematics I (80 teaching hours).
- o Financial Mathematics (80 teaching hours).
- o Mathematics II (80 teaching hours).

Instituto Mixteco de Educación Superior   **Tezoatlán de Segura y Luna, Oaxaca**
Academic Coordinator   *2008 – 2009*
Responsabilities:

- o Global grades statistics.
- o School's academic schedule.

Other courses and distinctions...

Second National forum on mathematics thesis, undergraduate level.   *2009*
Speaker attendance in the event, June 17 to 19.

On optical surface generation using classic polish tools
Second International School on Mathematical Modeling and Applications   *2009*
Speaker attendance to the poster session, January 12 to 16.

Bachelor's degree   *2008*

Unanimous approval.

Huajuapan de León
Technological University of the Mixteca   *2008*
Technical support to the Applied Mathematics Lab, 60 hours.

Huajuapan de León
Technological University of the Mixteca   *2007*
Professor of *Mathematical Problems* course, 420 total hours:

- Short Foundations Course, August-September.
- Long Foundations Course, March-July.

Huajuapan de León
Technological University of the Mixteca   *2006*
LaTeXcourse, 2 hours a day for 2 weeks.

Huajuapan de León
Technological University of the Mixteca   *2005*
Programming course for *ACM-ICPC* contest, 8 hours a day for 2 months.

Languages

Spanish: High level   *Mother language.*
English: High level   *From* UTM *and* CIMAT*.*

Programming languages

General: Python	**General**: node
General: C++	**General**: Java
Scripting: bash	**Scripting**: zsh
Logic programming: LISP	**Logic programming**: Prolog
Optimization: Optaplaner	**Data analysis**: pandas, dask
SaaS: Google Cloud Platfom (GCP)	**SaaS**: Firebase

Computer Skills

OS: Windows)	**OS**: Linux (Ubuntu, Debian, etc.
Productivity software: MS Office, OpenOffice, LibreOffice	**Mathematical packages**: Octave, MatLab, R, Maxima, Mathematica
Internet: Explorer, Firefox, Google Chrome, Google Chromium	**Typographical software**: LaTeX, emacs, TeXMaker, TeXmacs