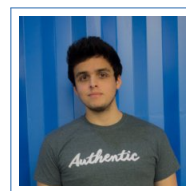


# Rodrigo Hernández-Mota

*Resumé - January 5, 2018*

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México

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## Experience

### Professional experience

- 2016–current **Data Scientist Jr.**, *CRABI*, Andares Corporativo Acueducto - Zapopan.  
The data-science team at Crabi covers two main areas: pricing model and fraud detection.
- System architecture to analyze user behavioral data (sources: auto-telematics, apps, and social media).
  - Use generalized linear models to create an insurance pricing model that contemplates user behavior.
  - Propose advanced machine learning methods to enhance pricing and improve fraud detection.
  - Simulation and optimization techniques to predict economic variables relevant to the business.

### Volunteer

- 2014–2016 **Academic Council**, *Mathematics and Physics department - ITESO*, Tlaquepaque.  
Administrative and academic tasks concerning the financial engineering management team.
- Advice in the structure of the study framework.
  - Creation of the first financial engineering contest on the university.
    - Diffusion of financial engineering concept in the financial and corporate sector in Guadalajara.
    - Contact with professionals in the financial sector.
  - Collaborated with the student union.
    - Advice to students and study groups; Tutorials and aid in learning a programming language oriented to finance (Python, R and MATLAB / Octave).
    - Recreational events.
- 2013–2014 **Member of the financial engineering student union**, *ITESO*, Tlaquepaque.  
Participated in the formation of the first student union for financial engineering.
- 2011–2012 **Accounting assistant**, *Victoria Express*, Guadalajara.  
Worked as an assistant in the accounting area in Victoria Express hotel.

## Education

- 2013–2018 **Bachelor degree in Financial Engineering**, *Instituto tecnológico y de Estudios Superiores de Occidente*, Tlaquepaque, .  
Member of the student union (AFIN - SAIFI) and academic council of Financial Engineering.
- International Exchange Program at ESSCA (École supérieure des sciences commerciales d'Angers ) in Angers, France. Foreign studies related to economics and business.
  - **Professional Project (1/2)** Financial strategies and pricing using exotic derivatives. ML methods to estimate stock and currency prices.
  - **Professional Project (2/2)** Economic variables forecast for IIEG (Institute of Statistic and Geographic Information).
- 2010–2013 **Baccalaureate**, *Centro de Desarrollo Integral Arboledas*, Guadalajara, .  
Graduated as an outstanding student.
- 3 years study of French and English language.
  - Economic and mathematical background.
  - Participated in physics contests as a representative student.
  - Short intercultural exchange with the school Lycée Notre Dame de Rezé in Nantes, France.

## Certificates

- **Big Data**, *University of California San Diego*, Coursera.  
Introductory topics regarding big data tech.
  - (2015) Introduction to big data.
  - (2015) Hadoop platform and application framework
- **R for Data Science**, Datacamp.  
Using R as a data science tool.
  - (2016) Introduction to R.
- **Programming**, Code School.  
General programming tools.
  - (2016) Git real
  - (2016) Try Python
- **Microsoft Office**, Microsoft.  
Microsoft specializations.
  - (2010) Microsoft Office Specialist for Office Excel
  - (2010) Microsoft Office Specialist for Office Word

## Language

Spanish	<b>Professional proficiency</b>	<i>Primary language</i>
English	<b>Professional proficiency</b>	<i>TOEFL iBT 104 and TOEFL ITP 620</i>
French	<b>Limited proficiency</b>	<i>DELF A2</i>

## Skills

### Main programming languages

Python	<b>Data science and software development</b>	<i>Full professional proficiency</i>
R	<b>Data science</b>	<i>Full professional proficiency</i>
Spark	<b>Big data</b>	<i>Professional working proficiency</i>

Scala	<b>Software development</b>	<i>Professional working proficiency</i>
Java	<b>Software development</b>	<i>Professional working proficiency</i>
Git	<b>Distributed Version Control System</b>	<i>Full professional proficiency</i>
MATLAB	<b>Data analysis</b>	<i>Full professional proficiency</i>
Wolfram	<b>Computational Mathematics</b>	<i>Limited proficiency</i>
Cassandra cql	<b>Database</b>	<i>Professional working proficiency</i>
SQL	<b>Database</b>	<i>Professional working proficiency</i>
LaTeX	<b>Writing system</b>	<i>Full professional proficiency</i>
<b>Featured Skills</b>		
AI	<b>Machine Learning</b>	<i>Professional working proficiency</i>
DS	<b>Data Analysis and visualization</b>	<i>Professional working proficiency</i>
CS	<b>OOP and FP</b>	<i>Professional working proficiency</i>
Finance	<b>Financial Analysis</b>	<i>Professional working proficiency</i>
Finance	<b>Financial Strategies (derivatives)</b>	<i>Professional working proficiency</i>
Finance	<b>Quantitative Trading</b>	<i>Professional working proficiency</i>

## References

Github <https://github.com/rhdzmota>  
Kaggle <https://www.kaggle.com/rhdzmota>

<b>Name</b>	<b>Company</b>	<b>Contact</b>
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