

# RODOLFO FERRO

SR. SWE @ Bisonic México | Building tech solutions with AI, Data & Blockchain

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📍 León, México

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## EXPERIENCE\*

\*Some of the most relevant experience includes the following:

### Sr. Software Engineer (Data Engineer)

#### Bisonic México

📅 Mar 2023 – Present 📍 Guanajuato, Mx (Remote)

- In charge of automation processes and smart contracts.
- Building analytics dashboards in data team.

### City Councilor @ León (Guanajuato)

#### Municipal Advisory Council for Economic Development, Creativity and Innovation

📅 Jul 2022 – Present 📍 León, MX

- City councilor, in charge of projects evaluation for city development.

### Machine Learning Engineer

#### Zetalabs S.L.

📅 Dec 2020 – Aug 2022 📍 Spain (Remote)

- Designed, implemented and deployed computer vision ML models in cloud.
- Cloud admin of model registry and orchestration system.

### Machine Learning Research Assistant

#### CIMAT, National Consortium of Science and Technology

📅 Feb 2018 – Feb 2019 📍 Guanajuato, MX

- Implemented deep learning models for computer vision systems in industry.

### Machine Learning Research Intern

#### Department of Chemistry and Chemical Biology, Harvard

📅 Jun 2017 – Aug 2017 📍 Cambridge, MA

- Implemented ML models for inference of molecule properties.
- Developed a Python package on ML models applied to molecular properties, using GFlow.

## EDUCATION

### Statistical Methods Specialist

#### Centro de Investigación en Matemáticas (CIMAT)

📅 Jul 2024 – present 📍 Aguascalientes, MX

### Computer Systems Engineering

#### Universidad Virtual del Estado de Guanajuato (UVEG)

📅 Jan 2021 – Dec 2023 📍 Guanajuato, MX

- With computer vision as the focus area.

### BS in Mathematics

#### Universidad de Guanajuato (UG)

📅 Aug 2011 – Jul 2018 📍 Guanajuato, MX

- With computational mathematics as the focus area.

## SKILLS

### PROGRAMMING

Python • Processing • C • MongoDB

### LIBS/Frameworks

NumPy • TensorFlow (TF) • Pandas • Flask  
OpenCV • Airflow • Prefect • Ploomber  
Gradio • Streamlit

### TECH TOOLS

Git • GitHub • JupyterLab •  
Google Cloud Platform • Microsoft Azure

## PROJECTS

### ResMoNet

- Detecting Emotional States from Video to Improve the Electronic Patient Record (<http://dx.doi.org/10.2139/ssrn.4120087>).

### Psychopathology Assistant

- An intelligent assistant platform to track psychopathology patients responses during face-to-face and remote sessions ([github.com/RodolfoFerro/psychopathology-fer-assistant](https://github.com/RodolfoFerro/psychopathology-fer-assistant)).

### CitizenBot

- A social network bot to attend citizenship reports about failures on public services.
- Intellectual property registration N°: 03-2017-071811472900-01 (Mexico).

## AWARDS

- Microsoft Certified: Azure Fundamentals [AZ-900] (2021).
- Winner of the #TFWorld TensorFlow 2.0 Challenge (2020).
- Quantum Computing 101 [Mexico Bootcamp] Badge by IBM Q (2018).
- 1<sup>st</sup> place in the IBM Hackapalooza Bluehack Hackathon (2017).
- 1<sup>st</sup> place in Hackathon "Centro Fox" (2017).

## PUBLIC SPEAKING

- TEDxUNAMLeón (2020)
- PyCon Colombia (2020)
- International Conference on Software Processes Improvement (CIMPS) (2020)
- Reunión Internacional de Inteligencia Artificial y sus Aplicaciones (RIIAA) (2019, 2020)
- Jalisco Talent Land (2021, 2020, 2019)
- PythonDay México (2019, 2018)