

Rodrigo Ledesma

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#) | [Projects' description](#) | [Web Page on GitHub](#)

SUMMARY OF QUALIFICATIONS

- Second year Master's in Computer Science student at the University of Ottawa
- Four years of experience developing AI projects in the financial industry
- Formidable leadership and communication skills honed through volunteering and managing small dev teams
- Proficient in developing projects with Agile, Scrum and Management3.0
- Solid research and analytical soft skills for problem solving
- Fluent in English and Spanish and intermediate French

EDUCATION

Master's in Computer Science with Concentration in Artificial Intelligence

2021 - present

University of Ottawa, ON Canada

- Expected graduation date: August 2023
- Relevant courses: Machine Learning, Deep Learning, Algorithms' Analysis, Ethics in AI, Distributed Computing, Advanced Machine Learning, Design of User Interfaces
- Graduation project consisting of API and endpoint creation to dynamically store IP packets and logs containing malicious attacks in MongoDB. Train ML and DL models to predict and prevent future attacks on a network

Telecommunications and Electronic Systems Engineering Bachelor's Degree

2012 - 2016

Technological Institute for Superior Studies of Monterrey ITESM (Mexico)

- Conducted a thesis, patent, and academic article. "Design and Construction of an Omnidirectional Sound Source with Inverse Filtering Approach for Optimization." Instructed as Dr. David Ibarra's research assistant.
- Obtained 87/100 Global.

APPLIED PROJECTS

- Graduation Project: Intrusion Detection Prediction in LANs using Language Processing Models and Machine Learning Models
- Time predictions in amusement parks with imbalanced datasets [LinkFiles](#) [LinkBlog](#)
- Optimizing Lottery Ticket Hypothesis via Knowledge Distillation in Deep Neural Networks [LinkFiles](#)
- Predicting Story Points and project time delay in Agile Software Development projects using Transformers and BERT architecture [LinkFiles](#)
- Image-to-image translation sketches to Monet paintings comparing cGANs and cycleGANs – [LinkFiles](#)

RELEVANT SKILLS

Technical Skills

- Object Oriented Programming in Python
- Web developing with HTML/CSS and JavaScript (React and Bootstrap)
- Machine Learning libraries: Keras, TensorFlow, PyTorch, Pandas, Numpy, NLTK, Hugging Face
- Content storage and management such as SQL, MongoDB and Kafka
- Cloud management Hadoop and Cloudera
- RPA in Automation Anywhere

RELEVANT WORK EXPERIENCE

Machine Learning Tech Lead

Jan 2020 – Sept 2021

Citi Bank, Mexico

Rodrigo Ledesma

- Updated classic probability models with low success rates by developing automation solutions
- Implemented Machine Learning models to predict business risk and marketing targeting. Area's solutions impacted 1,700 branch offices and 23,000 customers
- Automated EUCs and Machine Learning algorithms whose manual implementation represent a risk for the business area, using Cloudera tools such as Spark, Hive, and Hue
- Migrated old code to python, storing it into our data lake (Cloudera cluster), and configuring automation schedulers in Autosys
- Created POCs for credit risk management, and branch office planning using machine learning models and big data tools

Robotic Process Automator Engineer

Apr 2019 – Jan 2020

Citi Bank, Mexico

- Developed and designed bots to automate tedious and repetitive manual tasks.
- Led a team of three to train 2000 tellers around Mexico virtually.
- Diagnosed problems in productive environments regarding automation with bots. Bots impacted 40,000 institutional clients and saved 45% of tellers' time.

Technology Solution Architect

Aug 2018 – Mar 2019

Citi Bank, Mexico

- Validated new software's technological architecture.
- Administrated different phases and documentation of all projects on various platforms.
- Automated medium complexity alerts with Excel macros.

Production Support Engineer Level 2

Feb 2018 – July 2018

Citi Bank, Mexico

- Monitored and troubleshooted productive financial applications for institutional clients.
- Collaborated with different areas to solve data inconsistencies, and updated systems when zero or minimal impact on customers' transactions.

OTHER EXPERIENCE

Heart of the City Piano Program Coordinator and piano teacher volunteer

2022-present

As volunteer I teach an online piano lesson for several elementary school kids, videos are posted weekly on this [link](#). As Coordinator I am in charge of organizing and helping with fundraising events, scheduling volunteers' lessons in different schools and making sure teachers and volunteers have all necessary materials and tools for the lessons.

Corrector/Teaching Assistant University of Ottawa

2021-present

- **AI for Cybersecurity Applications:** worked as both roles with a class of 160 multicultural students providing guidance on AI (Machine Learning and Deep Learning models) for solving cybersecurity problems. Also conducted an activity using Python, Dockers and Kafka to actively train a model on a constant stream of data.
- **Analysis and Design of User Interfaces:** worked as TA with a class of 150 multicultural students troubleshooting students' code mainly using HTML/CSS and JavaScript to design a Web Interface

Microcontrollers Workshop teacher

2013

Instituto Tecnológico y de Estudios Superiores de Monterrey Mexico

Certifications and awards

- AWS
- Python for data science, Cloudera
- Awarded with the Academic Merit Scholarship and Sports and Arts Scholarship (2012)
- Awarded DEFI Honors Diploma (2012)
- SQL (i.p.), Tableau (i.p.)