



RODRIGO DE LUNA LARA

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Experienced Python developer throughout the life cycle of data. Passionate about implementing solutions that optimize processes, drive decision making and provide actionable insights with the help of storytelling with data visualization.

Data Scientist with experience in the development of models, algorithms and tools that provide customer value and leverage human computer interaction fundamentals to maximize outreach and impact of the key outcomes of data analysis and exploration.

WORK EXPERIENCE

Sr Data Scientist 10/2018 – present

GE Aviation, Querétaro, México

Experienced in leading customer engagements, providing guided data discovery and exploration sessions:

- *Lead technical engagements with American Airlines operations reliability team, presenting key outcomes to executives; developed Python training and exploratory data analysis for Colombian Air Force; participated in tech discovery session with Copa Airlines; developed automatic reliability analysis for Aeromexico; provided data modeling services for Industrias Peñoles.*

Data science architect for end-to-end data science solutions, from data ingestion to insight generation, covering data acquisition and cleaning, model development, data visualization and delivery of key outcomes:

- *Main developer of Python libraries for physics based modeling, automatic feature ranking and selection, data cleaning, creation of non-standard plots and other utility functions. Developer for Python wrapper for data ingestion of engine data through RESTFUL APIs.*
- *Developer for a software interface for wind turbine digitized blade inspection in collaboration with GE Renewable Energy.*
- *Globally recognized for excellent software development practices.*

Experienced in the development of PoCs and MVPs to provide data science solutions that apply best practices in software engineering, data engineering, data science and user experience design:

- *Participated in a Tiger Team to define commercial technical proposals for data science products and services to leverage and connect aircraft and engine operational data with digitized airline maintenance records.*

Data Scientist 06/2017 – 07/2018

GE Oil & Gas, Querétaro, México

Lead the development of Intellectual Property for physics based algorithms and fleet-wide performance monitoring algorithms:

- *Algorithm for optimization of filter changes in turbomachinery enclosures.*
- *Algorithm for unsupervised detection of anomalous events in gas turbines.*
- *6 Invention Disclosure Letters submitted (4 rated as trade secret).*

Lead development of data-driven and productivity enhancement tools.

- *Automatic generation and delivery of analytic output reports*
- *Developed data visualization capabilities for machine learning algorithms.*

Edison Engineering Development Program 03/2015 – 06/2017

GE Power, Querétaro, México

- *Key performance analyst for LATAM power industry customers, participating in performance shortfall analysis and supporting data driven recommendations for conversions and upgrades.*
- *Improved several process by scripting automation, increasing productivity and time savings.*
- *Developer for performance monitoring algorithms in Matlab.*

EDUCATION

Master of Science (M.S.) in Computer Science 2016 – present

Georgia Institute of Technology, Online GPA: 4.00/4.00

Specialization in Interactive Intelligence:

- *Knowledge Based Artificial Intelligence*
- *Data Visualization & Analytics*
- *Machine Learning*
- *Machine Learning for Trading*
- *Reinforcement Learning*
- *Human Computer Interaction*
- *Software Development Process*
- *Educational Technology Foundations: developed a course on Data Visualization*

EDUCATION

BSc. in Mechatronics Engineering
2010 – 2014

Instituto Tecnológico y de Estudios Superiores de Monterrey, Querétaro, México
GPA: 3.95/4.00
Mechanics, electronics and control.

GENERAL SKILLS

Machine learning

Computer science

Data visualization

Business storytelling

Software development

Human computer interaction

Customer engagement

Fast learning

Adaptable

Resilient

Analytical

Intellectual curiosity

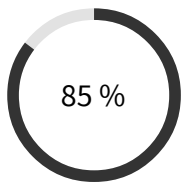
Communication skills

Teamwork

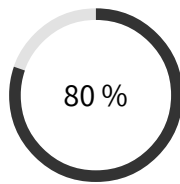
Prioritizing

Business acumen

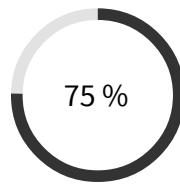
TECHNOLOGY SKILLS



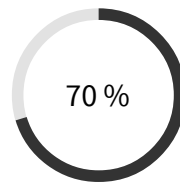
Python (2017-)



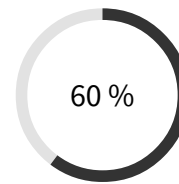
R/R-Shiny (2016-)



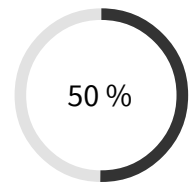
Matlab (2014-)



Git (2017-)



Dataiku (2019-)



SQL (2017-)

AWARDS

Snaptravel Fellowship for Georgia Tech

Snaptravel
<https://tinyurl.com/yyzr4loh>

Emerging Engineer Award
04/2017

General Electric
For outstanding early career development: innovation and business impact.

Digital Engineering Excellence
04/2017

General Electric
For outstanding technical achievements in development of state of the art solutions for automated LNG plants asset monitoring.

Innovation That Inspires Others
04/2016

General Electric
For co-leading development of innovative performance monitoring algorithms for power generation gas turbines.

CENEVAL National Prize
12/2014

CENEVAL
For outstanding performance in professional grade exam (top 3% nationally)

High Academic Performance Scholarship
12/2014

Instituto Tecnológico y de Estudios Superiores de Monterrey
For outstanding academic performance, meeting several additional requirements not expected by other students (attendance to conferences and extracurricular activities, leadership courses).

Social Service Award
12/2014

Instituto Tecnológico y de Estudios Superiores de Monterrey
For going above and beyond what is expected during social service.

CERTIFICATES

Advanced Courses in Engineering (ACE)
07/2017

General Electric
Advanced technical courses in turbomachinery for the power generation industry, including advanced topics like industrial control, vibrations and electromagnetism.

Analytics Engineer
05/2016

General Electric
Certification provided by GRC qualifying a person for data analysis tasks and basic modeling.

Green Belt in Six Sigma
11/2015

General Electric
Certification also includes Lean Manufacturing principles. A project was required for certification, resulting in over 200k USD in savings.

Diploma In Management Skills
12/2014

Instituto Tecnológico y de Estudios Superiores de Monterrey
Diploma offered by the Office of Postgraduate Studies in-campus, covering topics related to leadership, highly effective teams and communication strategies.