

# Luis Alejandro Rodriguez Gonzalez

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## EDUCATION

### Instituto Tecnológico y de Estudios Superiores de Monterrey

Aug. 2020 – Present

*Bachelor of Science in Computer Science (GPA: 97/100)*

*Expected graduation: Jun. 2024*

**Relevant Coursework:** Data Structures, Web Development, Data Analytics, Statistics, Agile Development, Software Requirement Analysis, Linear Algebra, Networking

## EXPERIENCE

### Major League Hacking Fellowship, Powered By Meta

May 2022 – Aug. 2022

*Production Engineering Fellow (Summer 2022)*

- Completed 12 weeks of structured curriculum-based learning covering core Production Engineering topics, supplemented with events and workshops hosted by industry experts
- Created open-source personal portfolio website template using Python, Flask, Jinja, MySQL, Nginx, and unittest
- Automated testing and deployment workflows using CI/CD
- Set up system and container monitoring, alerting, and visualization using Prometheus and Grafana

### Instituto Tecnológico y de Estudios Superiores de Monterrey

Sep. 2021 – Jul. 2022

*Undergraduate Research Assistant*

- Automated data cleaning and text mining in Python and Bash to train and test AI models
- Researched and implemented Natural Language Processing algorithms to find insights on school dropout in Jalisco
- Aggregated and documented insights for further analysis, publishing and use by the Jalisco State Government

## CERTIFICATIONS

### Specialization in Data Science | *The Johns Hopkins University via Coursera*

- Completed 2 out of 10 courses: [The Data Scientist's Toolbox](#), [R Programming](#)

## PROJECTS

### Ilikia: Geriatric Assessments | *React, Node, Express, MySQL*

2022

- Led a team of 7 people to design and build a full-stack web application to apply Mini-Mental State Examinations
  - Developed Express back-end serving a REST API to process and filter exam results
  - Developed React component to display questions with Unity3D components, and send the answers to the server
- [github.com/gonzalpi/ilikia](https://github.com/gonzalpi/ilikia)

### Dog and Cat Image Classifier | *Python, Keras*

2022

- Trained a Convolutional Neural Network to tell whether a picture contains a dog or a cat
- [github.com/gonzalpi/dog-cat-classifier](https://github.com/gonzalpi/dog-cat-classifier)

### Monopoly Strategist | *Python, Numpy*

2021

- Developed model of the probability of landing on any tile with a Markov chain to find the most profitable tiles
- [github.com/gonzalpi/monopoly-strategist](https://github.com/gonzalpi/monopoly-strategist)

### Proposal to Increase Renewable Energy Production to 40% in Mexico by 2024 | *Research Poster*

2019

- Analyzed IEA data and developed a proposal to surpass the 2024 renewable energy production federal goal
  - Consulted the 2016 Transition Strategy and the 2015 Energetic Transition Law enacted by the Mexican Congress
  - Presented findings in a poster at the 2019 Expo Ingenierías engineering fair hosted by the School of Engineering and Sciences at Instituto Tecnológico y de Estudios Superiores de Monterrey
- [gonzalpi.com/poster.jpg](https://gonzalpi.com/poster.jpg) (Spanish)

## SKILLS

**Programming Languages:** Python, Bash, C/C++, MySQL, JavaScript, HTML/CSS, R, C# (Unity), MATLAB

**Web Frameworks:** React, Flask, Node.js, Express.js

**Developer Tools:** Git, GitHub CI/CD, SSH, Linux, VS Code, DigitalOcean, Heroku, Firebase, Slack

**Other Libraries:** pandas, NumPy, Matplotlib, TensorFlow, NLTK, Gensim, scikit-learn