

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 – Jun. 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

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

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

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 (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