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 to find insights on student dropout at Jalisco public schools
- Researched and implemented Natural Language Processing algorithms
- Documented insights on school dropout for further analysis, publishing and use by the Jalisco State Government

CERTIFICATIONS

Specialization in Data Science | *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*
- Led a team of 7 people to design and build a full-stack web application to apply Mini-Mental State Examinations for the Club del Abuelo care home in Zapopan, Jalisco, MX
- 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

Monopoly Strategist | *Python, Numpy*
- 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

Dog and Cat Image Classifier | *Python, Keras*
- Trained a Convolutional Neural Network to tell whether a picture contains a dog or a cat
github.com/gonzalpi/dog-cat-classifier

Proposal to Increase Renewable Energy Production to 40% in Mexico by 2024
- Developed a proposal to increase renewable energy production in Mexico surpassing the 2024 federal goal
- Analyzed data from the International Energy Agency on energy consumption in Mexico to find current trends
- 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