Alejandro Rodríguez González

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EDUCATION

Instituto Tecnológico y de Estudios Superiores de Monterrey	Zapopan, Jalisco, MX
Bachelor of Science in Computer Science (GPA: 97/100)	*Aug. 2020 – Jun. 2024*
Major League Hacking, Powered By Meta	New York, NY
Production Engineering Fellow (SRE & DevOps)	*May 2022 – Aug. 2022*

EXPERIENCE

Undergraduate Research Assistant	Sep. 2021 – Jun. 2022
Instituto Tecnológico y de Estudios Superiores de Monterrey	*Zapopan, Jalisco, MX*

- 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 for further analysis, publishing and use by the Government of Jalisco

Mathematics and Physics Tutor	Apr. 2021 – Mar. 2022
Superprof	*Guadalajara, Jalisco, MX*

- Prepared learning resources on calculus, algebra, physics, and logic for middle, high school, and university students
- Consulted and adhered to the OpenStax curriculum and the Mexican Ministry of Public Education guidelines

PROJECTS

Ilikia: Geriatric Assessments | *React, Node, Express, MySQL, Heroku* Mar. 2022 – May 2022
- 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

Dog and Cat Image Classifier | *Python, Keras* Mar. 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* Dec. 2020 - Jan. 2021
- Modeled 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 Aug. 2019 – Nov. 2019
- 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

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, SSH, Linux (Fedora & Ubuntu), VS Code, DigitalOcean Droplets, Firebase
Other Libraries: pandas, NumPy, Matplotlib, TensorFlow, NLTK, Gensim, scikit-learn
Human Languages: Spanish (native), English (full proficiency), French (fluent, professional proficiency)

CERTIFICATIONS

The Data Scientist's Toolbox	Mar. 2021
The Johns Hopkins University via Coursera	
Machine Learning Onramp	Dec. 2020
Mathworks	