

Alejandro Rodríguez González

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EDUCATION

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

EXPERIENCE

Undergraduate Research Assistant <i>Instituto Tecnológico y de Estudios Superiores de Monterrey</i> <ul style="list-style-type: none">Automated data cleaning and text mining to find insights on student dropout at Jalisco public schoolsResearched and implemented Natural Language Processing algorithmsDocumented insights for further analysis, publishing and use by the Government of Jalisco	Sep. 2021 – Jun. 2022 Zapopan, Jalisco, MX
Mathematics and Physics Tutor <i>Superprof</i> <ul style="list-style-type: none">Prepared learning resources on calculus, algebra, physics, and logic for middle, high school, and university studentsConsulted and adhered to the OpenStax curriculum and the Mexican Ministry of Public Education guidelines	Apr. 2021 – Mar. 2022 Guadalajara, Jalisco, MX

PROJECTS

Ilikia: Geriatric Assessments <i>React, Node, Express, MySQL, Heroku</i> <ul style="list-style-type: none">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, MXDeveloped Express back-end serving a REST API to process and filter exam resultsDeveloped React component to display questions with Unity3D components, and send the answers to the server github.com/gonzalpi/ilikia	Mar. 2022 – May 2022
Dog and Cat Image Classifier <i>Python, Keras</i> <ul style="list-style-type: none">Trained a Convolutional Neural Network to tell whether a picture contains a dog or a cat github.com/gonzalpi/dog-cat-classifier	Mar. 2022
Monopoly Strategist <i>Python, Numpy</i> <ul style="list-style-type: none">Modeled the probability of landing on any tile with a Markov chain to find the most profitable tiles github.com/gonzalpi/monopoly-strategist	Dec. 2020 - Jan. 2021
Proposal to Increase Renewable Energy Production to 40% in Mexico by 2024 <ul style="list-style-type: none">Developed a proposal to increase renewable energy production in Mexico surpassing the 2024 federal goalAnalyzed data from the International Energy Agency on energy consumption in Mexico to find current trendsConsulted the 2016 Transition Strategy and the 2015 Energetic Transition Law enacted by the Mexican CongressPresented 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	Aug. 2019 – Nov. 2019

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)