

# Alejandro Rodríguez González

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## EDUCATION

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

## EXPERIENCE

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

## PROJECTS

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