

# Jorge Barrios

## Work

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| <b>Google - Software Engineer III (L4)</b>  | 2022 - Present |
| <ul style="list-style-type: none"><li>• Focus: Generative AI APIs.</li><li>• Designed and implemented core server handlers powering the PaLM API (I/O 2023).</li><li>• Owned and maintained tokenization endpoints for 10+ generative models.</li></ul>                             |                |
| <b>Google - Software Engineer II (L3)</b>   | 2021-2022      |
| <ul style="list-style-type: none"><li>• Focus: Natural-language understanding for Discover.</li><li>• Built and launched multimodal content classifiers spanning 100+ languages.</li><li>• Constructed and deployed self-supervised pipelines that predict user behavior.</li></ul> |                |
| <b>Google - Software Engineering Intern</b>   | Summer 2020    |
| <ul style="list-style-type: none"><li>• Focus: Recommender systems for Discover.</li><li>• Designed and implemented a custom attention layer; ranking accuracy soared.</li><li>• Found and fixed a critical bug in a production deep learning library.</li></ul>                    |                |

## Skills

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**Programming Languages:** C++ (proficient), Python (proficient), SQL, Matlab, OCaml  
**Software:** TensorFlow, Keras, Scikit-Learn, Pandas, Jupyter, Excel, MySQL, AWS, Linux, Git, LaTeX  
**Spoken Languages:** English (native), Spanish (native), French (limited working proficiency)

## Projects

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| <b>N-Body Simulation</b> - <a href="https://github.com/itsjorgebar/n-body-simulation">github.com/itsjorgebar/n-body-simulation</a>               | 2020 |
| <ul style="list-style-type: none"><li>• Built a CGI web app to run dynamic simulations of classical mechanics using numerical methods.</li></ul> |      |
| <b>Tiger Compiler</b> - <a href="https://github.com/itsjorgebar/tiger">github.com/itsjorgebar/tiger</a>  | 2020 |
| <ul style="list-style-type: none"><li>• Implemented a compiler front-end for the <i>Tiger</i> language; used functional programming.</li></ul>   |      |
| <b>Mariappchi</b> - <a href="https://mariappchi.mx">mariappchi.mx</a>  | 2017 |
| <ul style="list-style-type: none"><li>• Cofounded a mariachi booking app with 1K+ users; I led back-end development and UX design.</li></ul>     |      |

## Education

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| <b>Tecnológico de Monterrey</b> - B.S. Computer Science   | 2020 |
| <ul style="list-style-type: none"><li>• <i>Summa Cum Laude</i></li></ul>                              |      |
| <b>Chinese University of Hong Kong</b> - Undergraduate Exchange Program                               | 2019 |
| <ul style="list-style-type: none"><li>• Advanced curriculum in computer science.</li></ul>            |      |
| <b>Coursera</b> - Deep Learning Specialization  | 2018 |
| <ul style="list-style-type: none"><li>• Five-course specialization in deep neural networks.</li></ul> |      |

## Achievements

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| <ul style="list-style-type: none"><li>• Noograde lead; organized events for 2K+ employees</li></ul> | 2022 |
| <ul style="list-style-type: none"><li>• Top GPA in graduating class</li></ul>                       | 2020 |
| <ul style="list-style-type: none"><li>• ACM-ICPC Mexico finalist</li></ul>                          | 2020 |