

CONTACT

@ nat27314@gmail.com
Age
25 years old
Natalia Baez | LinkedIn

LANGUAGES

 SPANISH (NATIVE SPEAKER)
 ENGLISH (B2)

Mexico City



GitHub



Website

You can find my thesis work here.

CONGRESSES

LXV National Congress of Physics (Zacatecas, Zacatecas) as presenter and collaborator of two posters.

LXVI National Congress of Physics (Morelia, Michoacán) giving a talk and presenting a poster.

NATALIA BAEZ DE LA LUZ

PHYSICIST

PROFILE

A **physicist** with a strong analytical mindset and a growing specialization in data science and artificial intelligence. My training in atomic and quantum physics has equipped me to approach complex problems with rigor, creativity, and a vision for patterns, skills I now apply to the world of data. **I have worked as a web developer in public health institutions and have experience in machine learning projects.** My background in IT has given me expertise in real-world environments, agile methods, and teamwork. I am passionate about connecting scientific thinking with real-world applications, enjoying designing intelligent solutions and continuously learning.

EDUCATION

FACULTY OF SCIENCE (DEGREE IN PHYSICS), UNAM. I graduated in September 2023. Beyond my academic pursuits, I actively engage in scientific outreach and teaching projects. I took my elective credits about programming classes to guide my professional development in this area.

THESIS STUDENT, Physics Institute, UNAM.

November 2022 – June 2023. 8 months | I completed my thesis on atomic physics, titled "Atom-Field Interaction in Dispersive Optical Lattices." My research was designed to be applied to Bose-Einstein Condensates.

WORK EXPERIENCE

Teacher assistant, Science Faculty, UNAM.

August – December 2023. 6 months | Computing class for physicists. I taught classes about basic concepts in computation and graded assignments to students.

Web developer - COFEPRIS.

January 2024 – December 2024. 1 year | I was part of the development team, responsible for maintaining existing systems and participating in the analysis, development, and implementation of new ones. I worked with frameworks such as Angular, Django, Spring Boot, and .NET.

Web developer – IMSS Bienestar.

January 2025 – June 2025. 6 months | Worked as part of the core development team responsible for implementing new functionalities in existing systems and contributing to the analysis, design, and development of new modules. Collaborated in both frontend and backend tasks using JavaScript, Angular, and Django. Participated in requirement reviews and proposed improvements in system architecture and data management, gaining experience in large-scale public sector platforms.

SOFT SKILLS

Teamwork, proactivity, creativity, responsibility, communication skills.

PROGRAMMING LANGUAGES

Python, JavaScript, Julia

FRAMEWORKS

Angular and Django

OTHER KNOWLEDGE

Notion, Excel, SQL(PostgreSQL), HTML5, CSS, Adobe Illustrator, Git, Wolfram Alpha, Data visualization and LaTeX.

COURSES

Completed

- ✓ Foundations: Data, Data, Everywhere (Coursera, Google)
- ✓ Ask Questions to Make Data-Driven Decisions (Coursera, Google)
- ✓ Prepare Data for Exploration (Coursera, Google)
- ✓ Process Data from Dirty to Clean (Coursera, Google)
- ✓ Analyze Data to Answer Questions (Coursera, Google)
- ✓ Build a Data Science Web App with Streamlit and Python (Coursera, Project)
- ✓ Python and Pandas for Data Engineering (Coursera, Duke University)
- ✓ Introduction to HTML5 (Coursera, University of Michigan)
- ✓ Introduction to CSS3 (Coursera, University of Michigan)
- ✓ Interactivity with JavaScript (Coursera, University of Michigan)
- ✓ Advanced Styling with responsive design (Coursera, University of Michigan)
- ✓ Web Design for everybody capstone (Coursera, University of Michigan)
- ✓ Introduction to web development (Coursera, Andes University)
- ✓ Introduction to programming applied to art in Processing (CUNA)
- ✓ Basic Design Elements: Design Principles and Software Overview Illustration (Coursera, University of Colorado)
- ✓ Introduction course to quantum computing (The Coding School's Qubit by Qubit program)
- ✓ XXIX Summer School in Physics (Institute of Physical Sciences UNAM)

In progress

- Share Data Through the Art of Visualization (Coursera, Google)
- Machine Learning: Theory and Hands-on Practice with Python Specialization (Coursera, University of Colorado)