

NATALIA BAEZ DE LA LUZ

PHYSICIST

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 technology and 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.

CONTACT



[GitHub](#)



[LinkedIn](#)



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Mexico City

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.

LANGUAGES

Spanish

English - B2

SOFT SKILLS

Teamwork, proactivity, creativity, responsibility, communication skills.

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.

WEBSITE



WORK EXPERIENCE

JANUARY – JUNE
2025

6 months

WEB DEVELOPER
IMSS Bienestar

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.

JANUARY – DECEMBER
2024

1 year

WEB DEVELOPER
COFEPRIS

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.

AUGUST – DECEMBER
2023

6 months

TEACHER ASSISTANT
Science Faculty, UNAM.

Computing class for physicists. I taught classes about basic concepts in computation and graded assignments to students..

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.

CERTIFICATIONS

- 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)