





# NATALIA BAEZ DE LA LUZ

## PHYSICIST

**Physicist** with a strong analytical mindset and growing specialization in Data Science and AI. **Experienced in web development within public institutions and machine learning projects.** Passionate about connecting scientific rigor with real-world technology applications

### 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 – Presenter (2 posters)
- LXVI National Congress of Physics – Talk + 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, TypeScript

**Version Control & Collaboration**  
Git, GitHub

**Design & Visualization**  
Adobe Illustrator, Figma

**Tools & Environments**  
VS Code, Linux, PowerShell, Shell (bash)

**Web Development**  
HTML5, CSS3, Angular, Node.js, Django

**Productivity & Documentation**  
Notion, Markdown, LaTeX

**Data & Analytics Tools**  
Excel, Pandas, PostgreSQL, Data Visualization

### CERTIFICATIONS

#### Data & Analytics

- 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
- Python and Pandas for Data Engineering – Coursera, Duke University
- Build a Data Science Web App with Streamlit and Python – Coursera (Project)

#### Web Development

- 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

#### Design & Creativity

- Basic Design Elements: Design Principles and Software Overview – Coursera, University of Colorado
- Illustration – Coursera, University of Colorado
- Introduction to Programming Applied to Art in Processing – CUNA

#### Physics & Quantum Computing

- Introduction to Quantum Computing – The Coding School (Qubit by Qubit Program)
- XXIX Summer School in Physics – Institute of Physical Sciences, UNAM