

# 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
-  nbaezhuber@gmail.com
-  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** | **WEB DEVELOPER**

**2024**

**1 year**

**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** | **TEACHER ASSISTANT**

**2023**

**6 months**

**Science Faculty, UNAM.**

Teaching 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 & Deep Learning Tools

Pandas, PostgreSQL, Data Visualization, PyTorch

## PROJECTS

#### Learning Strategies and their relationship with academic performance

Analysis of the influence of learning strategies (self-management, motivation, and study techniques) on the perceived academic performance of university students using a linear regression model.

#### Wine Classification

Implementing a Neural Network for Multiclass Wine Classification: A Deep Learning Course Project using Scikit-Learn.

#### Facial Expression Recognition

A Deep Learning System for Real-Time Emotion Recognition from Grayscale Webcam Feeds.

## 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