

# Alexandre Estrela

Master's Student in I.T.

Patos, Paraíba  
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## PROFESSIONAL EXPERIENCE

### Centro Universitário de Patos — *Software Development Intern*

sep 2024 - moment

- Backend development of an extension system using Django;
- System standardization with Docker and PostgreSQL as the DB;
- Creation of a chat system with WebSocket integration in Django.

## MAIN PROJECTS

### Development of software *Intensio*

jan 2023 - dec 2023

- Use of Python, NumPy, SciPy, and Tkinter libraries;
- Statistical treatment of time series data;
- Creation of graphical interface, installer, and user manual;
- Supervised machine learning modeling.

### Decimal to numerical base conversion site

feb 2024 - mar 2024

- Utilized Python and Django library for web development;
- Programmed PostgreSQL as the application's database;
- Created Docker containers and images for the site and database;
- Generated Kubernetes pods to manage containers.

### Weak supervision application for labeling toxic tweets

jun 2024 - jul 2024

- Utilized Python and libraries Numpy, Sklearn, Pandas, and Snorkel;
- Performed text data processing and created labeling functions;
- Applied Transformers for enhanced labeling and accuracy;
- Developed a weakly labeled database.

## ACADEMIC EDUCATION

### Centro Universitário de Patos, Patos-PB — *Bachelor*

feb 2019 - dec 2023

Bachelor's degree in Civil Engineering.

### UFRN / Metr pole Digital, Natal-RN — *Master*

feb 2024 - present

Professional Master's degree in Information Technology.

## SKILLS

Excel  
Power BI  
Overleaf  
Docker  
SQL  
HTML/CSS  
Javascript  
Python  
Django  
Jupyter  
NumPy  
Pandas  
SciPy  
Scikit-learn  
TensorFlow

## CERTIFICATES

UFRN - Programador WEB

Preditiva - Data Analytics

Preditiva - Microsoft Excel  
para An lise de Dados

Preditiva - Fundamentos de  
Data Analytics

Preditiva - Power BI para  
An lise de Dados

## LANGUAGES

(C2) Portuguese  
(B1) English