



Visit my portfolio

Ing. Luis Aries Meza Castillo

Python & Full-Stack
Developer

ABOUT

Programmer with a background in Computational Technology Engineering. A responsible team player with strong logical thinking and a commitment to continuous learning. Currently enhancing skills in React, Power BI and Docker.

EDUCATION

Degree in engineering in computer technology from the Universidad Autónoma de Baja California Sur.

Science Mayor

CONTACT

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CERTIFICATES

**PCAP-Certified Associate in Python
Programing | 2021**

Python Institute

Programing Essentials in Python | 2021

Cisco Networking Academy

Complete Web Development Course | 2021

Udemy

**Python Masterclass: Python, Django,
Flask, and TKinter | 2021**

Udemy

Introduction to Data Science | 2024

Santander Open Academy & IE University

Curso de PHP Moderno | 2025

Udemy

Java Programer Course | 2021

Edutyn Academy

CCNA R&S: Introduction to Networks | 2019

Cisco Networking Academy

**CCNA R&S: Routing and Switching
Essentials | 2029**

Cisco Networking Academy

CCNA R&S: Scaling Networks | 2020

Cisco Networking Academy

Excel Course | 2024

Santander Open academy

JavaScript Essentials 1 | 2025

Cisco Networking Academy

Laravel 12: de 0 a experto | 2025

Udemy

HABILITIES

TECNICAL SKILLS

- Programming Languages: Python, JavaScript, Java, PHP, HTML, CSS.
- Frameworks & Libraries: Flask, Django, FastAPI, Bootstrap, jQuery, React, Laravel, Livewire.
- Tools: Git, GitHub, Power BI (in progress).
- Cloud and Networking: CCNA certifications.
- Databases: SQL.
- English Proficiency: B2 level.

STRENGTHS

- Strong logical and mathematical skills.
- Disciplined and detail-oriented.
- Problem-solving mindset
- Team player and cooperative.
- Quick learner with a passion for technology

EXPERIENCE/ PROJECTS

Programmer at Maestros Joyeros (1 year)

- Developed and maintained a custom ERP system using Laravel + Livewire framework.
- Designed new modules and refactored existing ones to improve functionality and performance.
- Automated PDF and Excel report generation to streamline business processes.
- Planned and optimized database management strategies.

- Created Python scripts for:
 - Data extraction and analysis.
 - Bulk data imports from Excel files into the database.

Tech Stack: Laravel, Livewire, TailwindCSS, MySQL, Python, JavaScript.

Full-Stack Portfolio Application

A comprehensive portfolio application featuring secure authentication and professional project management.

- Backend: Developed a secure REST API with FastAPI and PostgreSQL, featuring JWT-based authentication, role-based permissions (admin/user), and bcrypt password hashing.
- Frontend: Built a responsive single-page application (SPA) in React with client-side routing, protected admin routes, and reusable UI components.
- DevOps & Deployment: Containerized the full application using Docker and deployed it on Render with an automated CI/CD pipeline integrated with GitHub.

Tech Stack: FastAPI, SQLAlchemy, PostgreSQL, React, JavaScript, Docker, Render, JWT, bcrypt, HTML5/CSS3, responsive design.

FlaskNotes

Developed a web app for note management with secure session handling (Flask-Session) and efficient pagination for large datasets. Enabled users to create, edit, and delete notes smoothly.

Built a custom search engine using TF-IDF, cosine similarity, and QuickSort for efficient and relevant results. Overcame challenges like session consistency and paginated search.

Tech stack: Python, Flask, HTML, CSS, MySQL.

CorpusClassifier

Designed a text classification project using NLP and ML to predict categories in the Brown corpus ("lore," "learned," "belles-lettres"). Processed data with TF-IDF, trained a neural network (TensorFlow/Keras), and optimized model accuracy. Overcame challenges in text preprocessing and model integration.

Tech stack: Python, pandas, scikit-learn, numpy, spacy, Keras, TensorFlow.

DetectFrameAI

Developed a system to detect and classify moving objects in videos using frame differencing, recursive ROI extraction (skimage.measure), and VGG16 for classification. Process included segmentation, multi-object handling with size thresholds, bounding box annotation, and video reconstruction. Overcame challenges in ROI extraction and accuracy optimization.

Tech stack: Python, OpenCV (cv2), matplotlib, numpy, skimage, keras, VGG16.