

# Cristian Aragón Salazar

Aguascalientes, México · <https://www.linkedin.com/in/cristian-aragon-salazar/> · +52 442 377 9986 ·  
crisarag8.sal@gmail.com · <https://cristian-aragon-salazar.vercel.app/>

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**Artificial Intelligence Engineer** with experience in software development, team leadership, and data-driven solutions. Skilled in **Python, C++, and web development**, with a strong background in **machine learning, algorithms, and interactive dashboards**. Passionate about building scalable and impactful technologies.

## PROFESSIONAL EXPERIENCE

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**Foráneos UP**  
President

**Aguascalientes, México**  
January 2025 - Present

- Guided and supervised the comprehensive work of all involved parties.
- Managed and promoted collaboration between teams.
- Coordinated efforts to optimize the group's performance.
- Fostered an efficient work environment aligned with objectives.

**Burkle Exterminadores**  
Web Developer

**Aguascalientes, México**  
August 2024 - December 2024

- Developed and deployed the company's website to attract new clients and showcase services.
- Designed a blog and Q&A forum, increasing user interaction by 30%.
- Optimized structure and design to reduce bounce rate and improve navigation speed.
- Implemented SEO strategies that enhanced online visibility.

**Integra CEF (Foreign Students Commission)**  
Vice President

**Aguascalientes, México**  
August 2023 - December  
2024

- Individually supervised the strategic functions of each team member.
- Ensured the fulfillment of key responsibilities within the team.
- Optimized individual performance aligned with strategic objectives.
- Provided follow-up and support to improve team efficiency.
- Developed the website for the organization.

## EDUCATION

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**PANAMERICAN UNIVERSITY**  
Artificial Intelligence Engineering

**Aguascalientes, México**  
August 2022 - August 2027

## PROJECTS

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### Foráneos UP Dashboard

Student Management & Analytics Platform

React, Firebase,  
Material UI, Javascript

- Built a web platform to manage foreign students' data for Foráneos UP.
- Implemented bulk data upload and historical change logs for traceability.
- Designed real-time analytics dashboards (majors, semesters, origins, birthdays).
- Integrated secure authentication with Firebase, ensuring scalability.

### Quixo Bot

AI Game Agent

Python, Minimax with  
Alpha-Beta Pruning

- Developed a competitive bot to play Quixo against other AI agents.
- Tuned heuristics to improve strategy and decision-making.
- Tested performance across multiple scenarios to optimize outcomes.

### Kvasir-AI

Intelligent Classification of Endoscopic Images (ResNet18 & DenseNet121 + Grad-CAM)

Python, PyTorch,  
Grad-CAM, Deep  
Learning, Medical  
Imaging

- Developed an automated system for endoscopic image classification using deep neural networks (ResNet18 and DenseNet121).
- Applied preprocessing techniques such as CLAHE and data augmentation to improve robustness.
- Implemented explainable AI visualizations with Grad-CAM to interpret model decisions.
- Classified images into **8 clinical categories** (e.g., polyps, esophagitis, healthy tissue).
- Achieved **88.75% accuracy** with DenseNet121, outperforming ResNet18 (84.06%).

### Rubik's Cube Solver

Search Algorithms

Python, BFS / A\* / IDA\*

- Implemented a solver for 3x3x3 Rubik's Cube using advanced search algorithms.
- Visualized solutions to enhance usability.
- Optimized performance to reduce required moves.

### File Compressor

Huffman Coding

Python

- Built a compression tool using Huffman algorithm, reducing file size up to 20%.
- Designed an intuitive interface for compression/decompression.

### Mastermind

Logic Game

C++

- Developed a color-combination guessing game with feedback-based hints.
- Designed an intuitive interface to enhance player experience.

### Modified RegEx

Data Structures and Algorithms

Python

- Created software to design and test regular expressions.
- Built an interactive interface for real-time validation.

- Optimized efficiency of regex processing.

### Foreigner's Corner

HTML, CSS, Odoo

Website

- Designed a help website with FAQ section for foreign students at Panamerican University.
- Improved accessibility and usability for easier navigation.

### Portfolio

Python, Reflex

Website

- Developed a personal portfolio to showcase projects and achievements.
- Optimized performance for faster loading and smoother navigation.

## LANGUAGES

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ENGLISH

Upper-Intermediate

TOEFL

550 POINTS

SPANISH

NATIVE