Isaias Pacheco Castillo

+525628522588 | isaiaspachecoc@gmail.com | isaiasdev.space | IsaiasPachecoIPN | isaias-pacheco-castillo-8b1b58234/

Personal Profile

Computer Systems Engineer with a Master's degree in Computer Science with experience in full stack development, machine learning, and computer vision. Specialized in web application development with Java (Struts) and JavaScript, Oracle and MongoDB database integration, as well as implementation of advanced artificial intelligence techniques, including fine-tuning of large language models, nlp tasks and image classification.

Education

Centro de Investigación en Computación (CIC) - Instituto Politécnico Nacional
CDMX

Master's Degree in Computer Science
May 2023 - Aug 2025

- Development and evaluation of classification, regression and computer vision models.
- Use of BERT models for classification tasks.
- Local fine tuning to large language models using Unsloth.
- Creation of the SABER application in Flutter, used for attendance management and tracking of attendance hours of CIC students.

Escuela Superior de Cómputo (ESCOM) - Instituto Politécnico Nacional
CDMX

Computer Systems Engineering
May 2016 - May 2020

- Creation of software for labeling datasets used in supervised learning for image and opinion classification.
- Participating in the Rest-Mex contest to classify opinions.

Professional experience

Sistemas Take Control
CDMX

Front-End and Back-End Programmer
December 2022 - January 2025

- Development of administration modules for the Cetes Directo platform.
- Implemented client requirements using Java (Struts framework).
- User interface design and development using JavaScript, HTML and CSS.
- Use hybrid encryption to protect sensitive user data.
- Manage and optimize databases in Oracle Database.

Academio Ecosistema
CDMX

Front-End and Back-End Programmer
February 2021 - January 2022

- Developing user interfaces with React and backend with Node.js
- User interface implementation using the React framework.
- Implement real-time chat with Twilio Conversations.
- Create and test endpoints to communicate with the server.
- Identify and fix bugs in the platform to improve the user experience.
- Design and manage databases with MongoDB.

Skills

Programming	Python (Pandas, PyTorch, NumPy, Scikit-learn. etc.), C/C++, Java, JavaScript, Dart.
Web development	HTML, CSS, Struts, React, Node.js
Database	MySQL, Oracle DB, MongoDB.
Tools and Technologies	Docker, Firebase, API Rest, GraphQL, Git, Gitlab, Google Cloud Platform., Optuna, Unsloth
Miscellaneous	Linux, Shell (Bash/Zsh), LaTeX(Overleaf)
Soft skills	Teamwork and effective collaboration, Effective time and resource management, analysis and resolution of complex problems, Adaptability to new technologies, commitment and professional responsibility.

Certifications

MITx (edX) Certificate	Machine Learning with Python: From Linear Models to Deep Learning | December 2024
DeepLearning.AI	Understanding and Applying Text Embeddings | 2022
GCP	Google Cloud Computing Foundations | October 2022

Languages

English	Level B2