Miguel A. Avila T.

Systems Engineer (c) · Database Administrator · IT Technician

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"Make the difference, keep it simple."

Summary

My interests are Back-end, Front-end, Full-Stack development, Database Design, Software Architecture, and ML. Through these years I have honed a code refactoring and optimization skill under the KISS principle (keep it simple, stupid) because simplicity is the key to efficiency, scalability and maintainability. (Note that simplicity \neq mediocrity)

Portfolio

Programming Languages

Octave

MySQL

ATEX

C#

PostgreSQL

Python

Java

SQLite JavaScipt ■ C++

Tools & Engines

SoapUI

PvCharm

XAMPP

NodeJS

VS Code ■ Unity 3D

Git ■ StarUML

Postman Idea

Docker

Django React

Operative Systems

Frameworks & Stacks

Django Rest Framework

■ Fedora

Linux Mint

Flask

Spring

WAMP

Ubuntu Windows

Languages

Spanish — Native

■ English — C1

Education

Universidad Santo Tomás

(Aug 2018 -- PRESENT)

Systems Engineering Degree

Original Title: Grado en Ingeniería de Sistemas

Udemy

- Angular Material Ultimate Course
- Project Management Essentials: A practical approach
- The Complete Python 3 Course: Beginner to Advanced!

Platzi

- Linear Algebra with Python
 - Original Title: Algebra Lineal con Python
- Linear Algebra Applied to Machine Learning Original Title: Algebra Lineal Aplicada para Machine Learning
- Mathematics for Data Science: Basic Calculus Original Title: Matematicas para Data Science: Cálculo Básico
- Multivariable Calculus
 - Original Title: Calculo Multivariable
- Discrete Mathematics Original Title: Matematicas Discretas
- Practical Fundamentals of Machine Learning Original Title: Fundamentos Practicos de Machine Learning
- Fundamentals of Software Engineering Original Title: Fundamentos de Ingeniería de Software
- Business Analysis for Data Science Original Title: Analisis de Negocios para Ciencia de Datos
- OOP and Algorithms in Python Original Title: POO y Algoritmos en Python

- Introduction to probabilistic thinking Original Title: Introducción al Pensamiento Probabilistico
- Computational Statistics with Python Original Title: Estadistica Computacional con Python
- Intermediate Python Original Title: Python Intermedio
- Linear Regression with Python Original Title: Regresion Lineal con Python

Carlos Slim Foundation

- Front-end Developer
- Original Title: Desarrollador Front-End
- Version Control
 - Original Title: Control de versiones
- Database Administrator
- Original Title: Administrador de bases de datos
- IT Technical Analyst Original Title: Analista técnico en TI
- IT Technician
 - Original Title: Técnico en informática

National Learning Service (SENA)

- Databases, Generalities and Management Systems Original Title: BASES DE DATOS GENERALIDADES Y SISTEMAS DE GESTION
- Principles of Object Oriented Analysis and Design, Using the UML Standard
- Original Title: PRINCIPIOS DEL ANALISIS Y DISEÑO ORIENTADO A OBJETOS, UTILIZANDO EL ESTANDAR UML
- Software Quality Application in the Development Process Original Title: APLICACION DE LA CALIDAD DEL SOFTWARE EN EL PROCESO DE DE-

 Quality in the Software Development Original Title: CALIDAD EN EL DESARROLLO DE SOFTWARE

Web development with PHP Original Title: DESARROLLO WEB CON PHP

Nuestra Señora del Rosario - Tunja

■ High School

Projects

hydro-wave-visualizer

(Jun 2021) Six real valued wave functions of the hydrogen atom (1s, 2s, 2p, 3s, 3p, 3d) are analyzed respect its convergence with the MonteCarlo integration method, then plotted using an implementation of the stochastic method via matplotlib.

Link: https://github.com/sesjehen-vestha-kxall/hydro-wave-

hard-cs-and-se-problems

(Dec 2020) A collection of problems which from an standard point of view are hard (really) along with some resources.

https://github.com/sesjehen-vestha-kxall/hard-csand-se-problems

Research and Writings

Numerical Simulations of Probability Distributions for the Hydrogen's Atom Wave Functions

Author & Researcher

(Nov 2020)

Topics: Quantum Physics, Electric Physics, Numerical Methods, Simulation, Visualization.

Personal References

First Name Last Name

(+XX) XXX XXX XXXX

%%%% NOTE: This resume doesn't represent my full %%% CV and excludes private information.