César Gabriel Villegas Mier

Ph.D. in Computer Science | Integrated Software Systems | Data Scientist



Details

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Social

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Lenguages

TOEIC 970,
TOEFL PBT
613.

Key Words

Machine Learning
Data Analysis
Predictive Modeling
Statistical Analysis
Data Visualization
Python Programming
SQL
Artificial Intelligence
ETL

Skills

Responsible, professional, proactive, disciplined, a leader, with the ability to adapt to different work styles, open to change, quick to learn, a strong team player, and a positive work attitude.

Profesional Experience

2025 - 2026 **Arkasnas State University – Elisea – Partial Time Professor**

I served as a part-time Professor at Arkansas State University at Elisia Hub, teaching core undergraduate computer science courses including CS 1114 – Concepts of Programming in Python, CS 2114 – Structured Programming with C++, and CS 3613 – Web Application Development. Designed and delivered hands-on lectures, programming labs, and project-based assessments focused on problem-solving, algorithmic thinking, and software development best practices. By integrating real-world examples and active learning methodologies, Improved student engagement and strengthened foundational programming skills across multiple cohorts.

2024 - 2025 **Enso Robotics – Technical Lead CNC/CAD/CAM**

Designed 2D and 3D models in SketchUp, AutoCAD, and Fusion 360 for CNC cutting projects in wood, acrylic, and aluminum, implementing 3- and 4-axis machining strategies.

2016 - 2020 **Escuela Mexicana Electricidad – Assistant Professor**

Served as an Assistant Professor of Electronics, Arduino Programming, 3D Design, and Automation, delivering hands-on instruction focused on embedded systems, digital fabrication, and basic industrial automation concepts.

2016 - 2017 **Instituto Rembrandt - Full Time Professor**

Served as a Robotics and Arduino Programming Instructor for middle and high school students, delivering hands-on lessons, labs, and project-based activities focused on basic electronics, programming logic, and problem-solving. Emphasized experiential learning to build strong foundations in robotics, embedded systems, and STEM

Education

Julio 2019 - Nov 2024 **Ph.D. in Computer Science –** *Specialization in Artificial Intelligence, Machine Learning, Data Science, and Photovoltaic MPPT Systems* **Autonomous University of Querétaro (UAQ) — uaq.mx Dissertation:** *"Algorithm to Improve the Efficiency of a Photovoltaic MPPT Controller Based on a Hybrid Neural–Metaheuristic Approach"* https://ri-ng.uaq.mx/handle/123456789/11344

Julio 2013 - Julio 2015 **Master's Degree in Embedded Software Engineering** – Specialization in Programming and Databases, Microcontrollers, and ROS Autonomous University of Querétaro (UAQ) — uaq.mx **Thesis:** *"E-book for Teaching Embedded Software Technologies Adapted to the Arduino Platform"* https://ri-ng.uaq.mx/handle/123456789/10124

Certifications

- Huawei/UAQ Artificial Intelligence Course.
- Deeplearning.com: ChatGPT Prompt Engineering for Developers, Reasoning with o1, Large Language Models with Semantic Search
- IBM Skills build: **Artificial Intelligence Fundamentals, Data Science Fundations, Big Data Fundations.**