



ALBERTO HERNANDEZ BARCENAS

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SUMMARY

I am currently an eighth-semester Information and Communications Engineering student seeking my first job opportunity as a residency student. During my academic training, I have studied areas such as networks, databases, and programming, and in my final year, I completed a specialized module in Data Analysis through the school. I consider myself a responsible, organized, and committed individual, willing to apply my knowledge and continue learning in a dynamic work environment. I am available to change residencies depending on the needs of the position.

LICENSES AND CERTIFICATIONS

What is Data Science? - IBM

Dec 2023

- Define data science and its importance in today's data-driven world.
- Describe the various paths that can lead to a career in data science.
- Summarize advice given by seasoned data science professionals to data scientists who are just starting out.

Tools for Data Science - IBM

May 2025 - Present

- Describe the Data Scientist's tool kit which includes: Libraries & Packages, Data sets, Machine learning models, and Big Data tools
- Utilize languages commonly used by data scientists like Python, R, and SQL
- Demonstrate working knowledge of tools such as Jupyter notebooks and RStudio and utilize their various features
- Create and manage source code for data science using Git repositories and GitHub.

Programación para todos (Introducción a Python) - University of Michigan

Dec 2023

- Instalar Python y escribir su primer programa
- Describir los conceptos básicos del lenguaje de programación Python
- Usar variables para almacenar, recuperar y calcular información
- Usar herramientas de programación básicas, como funciones y bucles

Researcher/Prototype Developer

Oct 2024

- Co-author of the article "Real-time geolocation system for cargo transportation in the state of Hidalgo, with communication redundancy (LoRa and WiFi)", published in IEEE ICEV 2024.
- Participated in the design, implementation, and validation of the prototype.
- Collaborated in the writing of the manuscript and its preparation for publication.

EDUCATION

Instituto Tecnológico Superior del Occidente del Estado de Hidalgo

Aug 2021 - Present

- Engineering in Tecnologías de la Información y Comunicaciones

ADDITIONAL INFORMATION

- **Soft Skills:** Leadership, proactivity, teamwork, responsibility, punctuality.
- **Languages:** English (Intermediate), Spanish (Native).
- **Networking:** Linux, Windows.
- **Programming Languages:** Python, Java, JavaScript, HTML/CSS.
- **Databases:** SQL Server, MySQL.
- **Software:** Tableau, Google Sheets, KNIME, PuTTY, Cisco Packet Tracer.