AGUSTIN MEDINA

Student with a solid basis in programming and mathematics. Looking for a position at programming or related.

+52 4681384239 | Personal Website | an-medina | agustinelson | an.medinacolmenero@gmail.com | León, Gto, Mexico

SKILLS

- Communication
- Team work
- Fast learner
- Troubleshooting
- Resilient

Programming Languages: Python, C/C++, C#, R, JavaScript, HTML, FORTRAN, Java.
Software: Wolfram Mathematica, GNU Octave, MATLAB, Maple, Arduino, ROOT (CERN), MS Office, LaTex.
Tools: version control (git), Linux.

Spanish
English

EDUCATION

Aug. 2019 – Dec. 2023 (Expected)
León, Mexico

BS IN PHYSICS
University of Guanajuato, Division of Science and Engineering

Aug. 2016 – Jun.2019
San Luis de la Paz, México

HIGH SCHOOL
University of Guanajuato, ENMS San Luis de la Paz

PROFESSIONAL PRACTICES

Dec. 2022 - Current
León, Mexico

International Laboratory of Elementary Particles of the University of Guanajuato

- I used my Python and R skills to preprocess and analyze data, and also used my C skills to improve the speed and efficiency of the application.
- I used libraries such as NumPy, SciPy, and Matplotlib in Python to create detailed and effective data visualizations.
- I used the C language to work with ROOT CERN and analyze a large amount of data, reducing the processing time of particle physics experiment data.

Dec. 2020 – Dec. 2021
León, Mexico

Biotechnology Laboratory Applied to Health, University of Guanajuato

- In the IoT Applications in Environmental Variable Measurement project, I used an ESP32 as a server to collect data from connected sensors and devices and developed a custom web page to visualize the data in real-time.
- I used web programming languages such as HTML and JavaScript to create an intuitive and user-friendly graphical user interface for end-users.

Dec. 2019 – Sep. 2020
León, Mexico

DCI-NET, University of Guanajuato

- In the project, I used computational intelligence techniques such as neural networks, reinforcement learning, and metaheuristic algorithms to solve problems in physics, chemistry, and biomedicine.
- The metaheuristic algorithms I used include simulated annealing, tabu search, and particle swarm optimization (PSO), which allowed me to find optimal solutions to complex and high-dimensional problems.
- I used programming tools such as Python and MATLAB to implement and optimize the algorithms, and worked with interdisciplinary teams to ensure that the results were applicable and relevant to the field of study.

HOBBIES

- ✓ I play guitar.
- ✓ I enjoy reading books.
- ✓ I like going for long walk.