Francisco Alfonso Mayorga Cetina

Mathematician - Software Developer

Professional in mathematics with ease and disposition for learning. I have more than two years of experience using object oriented programming (.NET) and data analysis (Python, R) tools.

I am interested in software development, scientific research and mathematical teaching, as well as digital design and illustration.

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in francisco-mayorga-cetina

Education

Mathematics
Sergio Arboleda University, January 2014 - May 2020
Thesis: Characterizing Dual Graphs Associated to Triangulations of the Caracol Flow Polytope

Learn Python & Ethical hacking from scratch, Udemy, February 2020

Python Cetification Course, Programming Hub, August 2020

Python 3 Cetification Course, Programming Hub, August 2020

Python Advanced Cetification Course, Programming Hub, August 2020

UI/UX Certification Course, Programming Hub, November 2021

Tools and abilities

- Adobe suite
- C#
- F#
- Godot
- English [B2]
- IPE
- Java
- LaTex
- Moodle
- OBS Studio
- Python
- R
- Sagemath
- SQL

Experience

Development Analyst
Finac S.A.S., November 2020 - Currently
Analysis, estimation, design and implementation of software development solutions for company applications

Team coordinator at "Monitores Sergistas"
Sergio Arboleda University, June 2018 - January 2020
Selection process for new candidates, evaluation and six-monthly statistical analysis of team's performance. Management of administrative and logistical processes, etc.

Volunteer
HAIKO foundation, February 2019 - November 2020
Teaching support in Discrete Mathematics and Computational Thinking courses

Publications

A unifying framework for the v-Tamari lattice and principal order ideals in Young's lattice
Combinatorica Magazine (in review process), Springer editorial, February 2021

On framed triangulations of flow polytopes, the v-Tamari lattice and Young's lattice
Proceedings of the 33rd International Conference on "Formal Power Series and Algebraic Combinatorics", Séminaire Lotharingien de Combinatoire - FPSAC 2021, Bar Ilan University, Ramat Gan, Israel. April 2021

References

Marta Yaneth Corzo Gómez
Mathematics school dean
Sergio Arboleda University

Rafael S. Gonzalez D'León
Researcher teacher
Pontifical Xaverian University

Leidy Alicia Tinjacá Romero
Lawyer
Sergio Arboleda University

Activities and events

XX Congreso Colombiano de Matemáticas
Attendee, National University of Colombia, Manizales, July 2015

Maratón nacional de programación ICPC
Contestant, Politécnico Grancolombiano; 2015, 2016, 2017, 2018 y 2019

Cube Challenge Sergista
Organizer, Sergio Arboleda University, 2018 y 2019

XXII Congreso Colombiano de Matemáticas
Speaker, University of Cauca, Popayán, June 2019
Poster: Flow polytopes and triangulations of the Caracol polytope

Maratón Regional de Programación (South America North) ICPC
Contestant, Politécnico Grancolombiano, November 2019