



Francisco A. Mayorga Cetina

Mathematics professional with a keen ability and willingness to learn.
I have over two years of experience in object-oriented programming (with .NET) and data analysis (with Python).
I am interested in software development, scientific research, and teaching mathematics, as well as digital design and illustration.

Professional Experience

- Developer II (.NET Senior Developer)**
August 2023 - Current
Sii Group Colombia (in the Thales project), Bogotá D.C., Colombia.
Responsible for analyzing, designing, and implementing new features for applications, as well as maintaining or enhancing existing ones, with a focus on optimization, security, and promoting good development practices.
- Development Leader (Maintenance and support)**
May 2023 - August 2023
Finanzas y Actuaría (Finac S.A.S), Bogotá D.C., Colombia.
Apart from the development tasks, I am in charge of monitoring the activities carried out by the team members and effectively planning and managing resources.
- Development Professional II - Software Products**
January 2023 - May 2023
Finanzas y Actuaría (Finac S.A.S), Bogotá D.C., Colombia.
- Development Analyst**
November 2020 - December 2022
Finanzas y Actuaría (Finac S.A.S), Bogotá D.C., Colombia.
Analysis, estimation, design and implementation of software development solutions (Winforms and ASP.NET) for the company's applications using .NET technologies (C#, F#, VB), SQL Server, SOAP Services (WCF), WPF, API Rest, DevExpress, etc.
- Sergistas monitors group coordinator**
June 2018 - January 2020
Sergio Arboleda University, Bogotá D.C., Colombia.
Selection process for new candidates, evaluation and semi-annual statistical analysis of the performance of the monitors, management of administrative and logistical processes.
- Continuing Education Teacher: "Talentos matemáticos" Program**
March 2019 - May 2019
Sergio Arboleda University, Bogotá D.C., Colombia.
Courses for students with high capacities for mathematics and technology.
- Volunteer**
February 2019 - November 2020
HAIKO Foundation, Bogotá D.C., Colombia.
Teaching accompaniment in discrete Mathematics and Computational Thinking courses.

Education

- Bachelor of Mathematics**
January 2014 - May 2020
Sergio Arboleda University, Bogotá D.C., Colombia.
Thesis (honorific): Characterizing Dual Graphs Associated to Triangulations of the Caracol Flow Polytope.
- Another Certification Courses**
 - HTML, JavaScript and Services, ITTalent, Bogotá D.C., Colombia.** August 2022.
 - UI/UX Cetification Course, Programming Hub, Online.** November 2021.
 - Python 3 Cetification Course, Programming Hub, Online.** August 2020.
 - Python Advanced Cetification Course, Programming Hub, Online.** August 2020.
 - Python Cetification Course, Programming Hub, Online.** August 2020.
 - Learn Python & Ethical hacking from scratch, Udemy, Online.** February 2020.

Publications

- A unifying framework for the v-Tamari lattice and principal order ideals in Young's lattice**
Submitted in February 2021
Combinatorica Journal, Springer.
- On Framed Triangulations of Flow Polytopes, the v-Tamari Lattice and Young's Lattice**
Submitted in December 2020
Bar Ilan University, Ramat Gan, Israel.
Séminaire Lotharingien de Combinatoire, Proceedings of FPSAC 2021, Art. 42, 12 pp.

Activities and events

- Regional Programming Marathon (South America North) ICPC**
November 2019 *Contestant, Gracolumbian Polytechnic*
- XXII Colombian Congress of Mathematics**
June 2019 *Speaker, University of Cauca, Popayán*
Poster: Flow polytopes and triangulations of the Caracol polytope.
- Cube Challenge Sergista**
September 2018, April 2019 *Organizer, Sergio Arboleda University*

Skills



Contact:



Linkedin profile



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