Matias Agelvis

matiasagelvis@gmail.com • matiasagelvis.com • +33 7 60 91 51 27
Linkedin: in/matias-agelvis • Github: MatiasAgelvis • Stackoverflow: Matias Agelvis

Summary

Specialized Physicist with a focus on chaos theory, complex systems, and discrete optimization. Proficient in mathematical optimization, modeling, simulation, agent-based modeling, and machine learning. Skilled in Python, JavaScript, Minizinc, C++, and SQL, with a strong commitment to continuous learning and staying updated with the latest trends.

Education

BSc. Physics | Universidad de los Andes (Merida, Venezuela) | 2019
Thesis: Suppression of Escape in Dynamical Networks
Graduated with Cum Laude Honors
Recognized as equivalent to a license by the ENIC-NARIC France centre
A full list of followed coursed and certifications is available in my online resume.

Programming Experience

Python • Proficient in Pandas, Google's OR-TOOLS, Keras, and Tensorflow, leveraging their capabilities to derive insights and develop advanced machine learning models.

JavaScript • I've created the Kumigi avatar designer app and the Stellaid browser extension, providing peer-adjusted ratings on Coursera. Proficient in React, Chakra, and TypeScript, I have the skill to design impressive UIs and develop robust backends.

C++ • I have applied my skills to create significant projects, including my thesis, and I also crafted OmegaInt, an intuitively designed arbitrarily sized Int implementation for C++.

Also knowledgeable of SQL (Impala), Netlogo, LaTeX.

MiniZinc • I have a solid background in addressing constraint optimization challenges, modeling discrete systems, and optimizing models.

Gnuplot • My expertise encompasses extensive experience in batch plotting and integration with LaTeX, enabling me to incorporate visualizations into professional documents, enhancing data presentation.

Bash • Familiar with Bash scripting, I effectively navigate and optimize command-line tasks on Linux and MacOS systems.

Professional Experience

Front End Developer | 03/2022 – 11/2022
RENYT Tech | Remote, Venezuela
- Built a blog from scratch, crafting layout and visual elements with path-dependent color schemes.
- Ensured that the blog was responsive, and that the UI was fully functional on desktops, tablets, and smartphones.
- Tested all blog components with Storybook to ensure compatibility and fixed any issues that arose.
- Continuously monitored the website performance and made necessary changes to improve it.
Technologies used: Next.js | Chakra | React.js | TypeScript

Research Assistant | 05/2017 – 02/2019
Universidad de los Andes, Nonlinear Dynamics Group of the | Merida, Venezuela
- Assisted a professor in conducting academic research, including the execution of research projects, conducting literature reviews, collecting and analyzing data, and preparing research papers.

Language Skills

Spanish	Native Speaker.
English	Fluent (Score 100/120 in TOEFL).
French	Fluent.