

Contact

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Top Skills

Mathematical Modeling
Kusto Query Language (KQL)
Bash

Languages

Créole haïtien (Native or Bilingual)
Français (Professional Working)
Anglais (Professional Working)
Espagnol (Limited Working)

Certifications

Google Data Analytics Professional
Certificate
Microsoft Power BI DAX from
Scratch
Microsoft Certified: Fabric Data
Engineer Associate
Apache Spark™ SQL for Data
Analysts
Complete Microsoft SQL Server
Database Design Masterclass

Geovany Batista Polo LAGUERRE

Data Scientist | Maths enthusiast with a focus on applied
mathematics and decision-making tools

Les Abymes, Pointe-à-Pitre, Guadeloupe

Summary

Driven by a deep passion for mathematics and data, I transform complex datasets into actionable insights that fuel strategic and operational decision-making.

My journey began with a love for applied mathematics and quickly evolved into hands-on data analytics. At Solutions S.A., I work as a Data Analyst, where I design and maintain ETL pipelines, develop applications in Java, Python, and .NET, and create interactive Power BI dashboards that support real-time decision-making. I also contribute to the development and maintenance of RADAR, the company's BI and reporting platform, ensuring reliable data flows and impactful reporting solutions.

In parallel, I serve as a Lecturer in Mathematics for Computer Science at Université Quisqueya (UniQ), where I mentor students and provide them with the mathematical foundations needed to succeed in data science, software engineering, and web development.

I hold multiple industry-recognized certifications and professional certificates from Microsoft, Google, Databricks, and IBM, spanning data analytics, business intelligence, machine learning, and data engineering. This unique blend of theory and practice enables me to bridge rigorous mathematics with modern technologies to deliver real-world impact.

My ultimate goal is to become an expert in Data Science, combining analytical engineering with strong mathematical foundations. I thrive on pushing the boundaries of what's possible, exploring innovative methodologies, and leveraging data to solve complex problems that matter.

If you are passionate about the limitless potential of data, let's connect and explore meaningful solutions together!

Experience

Université des Antilles

Research Intern – Mathematical Analysis and Simulation of an Ultrasound Propagation Model

January 2026 - Present (3 months)

Pointe-à-Pitre, Guadeloupe

Research internship in applied mathematics focused on the mathematical analysis and numerical simulation of nonlinear acoustic wave propagation.

- Study the Westervelt equation, a nonlinear partial differential equation widely used to model ultrasound propagation in fluid media.
- Conduct theoretical analysis of the PDE, including energy methods and well-posedness considerations.
- Investigate the structure of the model as a quasilinear strongly damped wave equation.
- Develop numerical approaches based on operator splitting techniques (Strang splitting) to separate wave propagation, diffusion, and nonlinear effects.
- Implement a Python-based numerical solver using finite difference schemes for time-domain simulations.
- Perform numerical experiments to study stability, convergence, and nonlinear wave behavior.

Supervised by M. Pascal POULLET and Ms. Léa BATTEUX.

Université Quisqueya

11 months

Lecturer in Mathematics

September 2025 - Present (7 months)

Port-au-Prince, Département de l'Ouest, Haiti

As a Lecturer, I contribute to the academic development of computer science students by providing them with the essential mathematical foundations required to excel in their studies and future careers.

- Teach core mathematical concepts including logic, algebra, calculus, and discrete structures with an emphasis on their applications in computing and technology.
- Develop students' analytical thinking, problem-solving strategies, and rigorous reasoning abilities.
- Connect abstract theory with practical use cases, preparing learners for advanced work in data science, software engineering, and web development.
- Mentor and support students in building a strong academic background that empowers them to pursue both research-oriented and professional paths.

Teaching Assistant in Data Science & AI

May 2025 - Present (11 months)

Haiti

As a Teaching Assistant in Data Science & AI at Université#Quisqueya (UniQ), in partnership with Akademi's bootcamp and following the Flatiron School's immersive curriculum, I empower students to master core data science concepts and practical applications.

Key Responsibilities

- Technical Mentorship: Guide students through advanced topics including Python programming, SQL, statistical analysis, machine learning algorithms, and data visualization.
- Project Support: Assist learners in their capstone projects, covering data wrangling, exploratory analysis, model building, and deployment using tools like Pandas, NumPy, Scikit-learn, and Matplotlib.
- Curriculum Collaboration: Work closely with the Lead Instructor to refine course materials, ensuring alignment with industry standards and the Flatiron School's curriculum.
- Student Engagement: Host Q&A sessions, conduct code reviews, and provide personalized feedback to reinforce comprehension and boost learning outcomes.

Key Technologies

Python · SQL · Pandas · NumPy · Scikit-learn · Matplotlib · Seaborn · Git · GitHub · Jupyter Notebooks · Power#BI · Tableau · PyCharm

Solutions S.A.

2 years 9 months

Data Analyst

November 2023 - Present (2 years 5 months)

Port-au-Prince, Département de l'Ouest, Haïti

As a Data Analyst at Solutions S.A., I play a key role in transforming data into actionable insights to support strategic and operational decision-making.

- Collect, clean, and structure large datasets from diverse sources, ensuring accuracy and consistency.
- Design and maintain ETL pipelines using SQL Server, Microsoft Fabric, and cloud-based tools to support scalable analytics.
- Develop and maintain custom ETL applications in Java and Python to automate data integration and processing workflows.
- Build and optimize interactive Power BI dashboards that provide visibility into key business indicators.
- Contribute to the development and maintenance of RADAR, the company's BI and reporting application, by designing, updating, and supporting reports while ensuring application reliability.
- Apply statistical methods, machine learning models, and data visualization techniques to uncover trends and generate insights.
- Collaborate with cross-functional teams to align business needs with data-driven solutions, with a strong focus on the healthcare sector.
- Ensure data governance, reporting standards, and performance monitoring to maintain reliability and compliance.

This role allows me to combine my strong academic foundation in mathematics with hands-on expertise in data science, ETL development, and business intelligence (BI).

Data Analyst Intern

July 2023 - November 2023 (5 months)

Port-au-Prince, Département de l'Ouest, Haïti

During my internship at Solutions S.A., I worked on both data analysis and software development tasks, gaining valuable experience in building solutions that support business intelligence and reporting.

- Contributed to the design and testing of ETL processes for integrating and cleaning data.
- Developed applications using .NET technologies, as well as Python, to automate data workflows and support reporting needs.
- Assisted in the creation and the maintenance of Power BI dashboards and reports for monitoring business performance and decision-making.
- Collaborated on the company's RADAR application, supporting the design, integration, and maintenance of reports.
- Applied mathematical and statistical methods to analyze datasets and provide insights to improve operations.

This internship allowed me to strengthen my skills in both data engineering and software development, while preparing me to transition into a full-time Data Analyst role at Solutions S.A.

Self Employed

Mathematics Tutor

January 2015 - January 2026 (11 years 1 month)

Port-au-Prince, Département de l'Ouest, Haïti

- Clarify and explain complex mathematical concepts in a simple manner.
- Assist students with their homework and exam preparation.
- Teach strategies to improve problem-solving skills.
- Customize teaching methods to meet individual student needs.
- Encourage and motivate students, boosting their confidence in their mathematical abilities.

Université des Antilles

Research Intern - Mathematical Modeling of Cyclones

April 2025 - June 2025 (3 months)

Martinique

As part of my Master's degree in Mathematics, I conducted a research internship at the MEMIAD laboratory focused on cyclone modeling and simulation.

Key contributions:

- Developed mathematical models of atmospheric flows using ordinary and partial differential equations (ODEs/PDEs)
- Performed asymptotic analysis in critical regions such as the cyclone eye
- Implemented numerical simulations in Python using the Lax–Friedrichs scheme
- Visualized velocity fields and radial profiles to analyze cyclone dynamics
- Produced a scientific report in LaTeX combining mathematical rigor and clear presentation.

Supervised by M. Maximilian HASLER.

Education

Université des Antilles

Master of Science - MS, Mathematics and Applications - Modeling and Decision-making Tools Track · (September 2024 - June 2026)

Université d'Etat d'Haïti

· (October 2017)

École Normale Supérieure de l'Université d'État d'Haïti

Bachelor of Science - BS, Mathematics · (November 2021 - July 2022)

Faculté des Sciences FDS-UEH

Engineer's degree, Civil Engineering · (October 2017 - July 2022)

MITx Courses

MicroMasters®, Statistics and Data Science – Methods Track · (January 2024)