Esteban Garzon, Data Analyst | Data Scientist | Civil Engineer

Quito, Ecuador, (593) 996788376, estebandre2@hotmail.es

LINKS

LinkedIn, Portfolio

PROFILE

Data Analyst and Automation Engineer with a strong foundation in data-driven problem solving and process optimization. Experienced in designing and implementing solutions using **Python**, **SQL**, and **machine learning** to analyze complex datasets and deliver actionable insights. Skilled in creating **data visualizations with Power BI** and performing **geospatial analysis with ArcGIS**. Proven ability to develop **predictive models**, **automated workflows**, and **interactive dashboards** to enhance operational efficiency and decision-making. Certified in **Foundations of Data Science** and **Python Programming**, with hands-on experience applying machine learning and statistical methods to real-world challenges. **Bilingual in English and Spanish**, with a demonstrated ability to integrate engineering principles into data science and automation solutions, driving innovation and efficiency in fast-paced, multidisciplinary environments.

EMPLOYMENT HISTORY

Jan 2026 — Present

Chief Technology Officer, Bynd Bits

Quito

This job was performed remotely from Ecuador for a U.S.-based client.

- Define and execute the company's technology strategy, aligning technical initiatives with business goals and long-term growth.
- Oversee software architecture, server infrastructure, networks, and information systems across the organization.
- Lead and coordinate teams across software development, infrastructure, technical support, and design.
- Serve as the single point of contact for ongoing inbound technical, operational, and systems support needs across the organization, managing intake, prioritization, escalation, and resolution while coordinating cross-functional teams to maintain continuity and execution.
- Evaluate, select, and implement technologies, platforms, frameworks, and tools that improve performance and operational efficiency.
- Establish policies, standards, and best practices for development, code quality, deployment, and technical consistency.
- Partner with cross-functional teams to identify technical and analytical needs and deliver practical, scalable solutions.
- Oversee the development, maintenance, scalability, and performance of digital products and web/mobile platforms.
- Support analytical and AI-related initiatives by aligning systems, data infrastructure, and reporting workflows with business and research needs.
- Produce technical documentation and structured internal guidance to support decision-making, implementation, and quality control.

Jan 2024 — Jan 2026

Data Engineer | AI-Driven Automation & Business Intelligence Specialist, Ecuassist

Quito

This job was performed remotely from Ecuador for a U.S.-based client.

- Designed and implemented multiple automation, AI-driven, and business systems solutions using Python, SQL, PostgreSQL, Microsoft Dynamics 365, Power BI, Power Automate, and Excel to streamline business processes, reduce manual workload, and improve operational visibility across departments. Leveraged machine learning, ETL pipelines, API integrations, and Microsoft ecosystem tools to automate data retrieval, transformation, reporting, approvals, and workflow coordination for operational, financial, customer service, and manufacturing environments.
- Led the design of an operational visibility and profitability solution centered on Microsoft Dynamics 365 (D365), using it as the core platform to manage customers, jobs, purchasing, production tracking, installation progress, and post-sale support workflows. Integrated Power Automate to manage approvals, reminders, escalation paths, and issue resolution workflows, while using Excel for controlled bulk uploads, structured operational templates, and data validation processes. Built Power BI dashboards connected to D365 and PostgreSQL to provide real-time visibility into operational performance, bottlenecks, job-level profitability, production throughput, and support activity.
- Developed a robust data infrastructure connecting platforms such as Moraware, RFMS, Slabsmith, Samsara, Park Industries machine logs, and Microsoft-based operational workflows through RESTful APIs and Python automation scripts. Built scalable data pipelines using pandas, SQLAlchemy, and psycopg2, deployed on a Linux droplet with automated scheduling via cron and Supervisor.

Implemented incremental update logic to detect and register only new or modified data, enabling near real-time synchronization without degrading system performance.

- Created an end-to-end ETL and Business Intelligence ecosystem integrating Power BI, PostgreSQL, Python, Excel, and operational data from ERP, production, logistics, and financial systems. Automated data cleansing, normalization, enrichment, and cross-system reconciliation to support management reporting and decision-making. Developed dashboards to monitor machine performance (OEE, utilization, downtime), cutting output (square footage per shift), labor efficiency, order profitability, and material yield analysis.
- Engineered custom API connectors for RFMS, handling token-based authentication, pagination, exception handling, and data quality controls. Developed real-time reporting scripts in Python to extract job, customer, and cost data, and built Power BI reporting layers to analyze COGS, gross margins, supplier performance, and sales by material type.
- Served as a central operational support resource for inbound business requests, reporting needs, data issues, and process follow-up across departments, helping coordinate troubleshooting, escalation, and resolution in a fast-paced environment. Supported continuous inbound operational demands as a primary point of coordination for reporting, automation adjustments, workflow issues, and cross-functional visibility needs, ensuring timely response and follow-through.
- Automated daily reporting and notification workflows using SendGrid API, Power Automate, n8n, and Zapier, distributing performance summaries, exception alerts, and operational updates to stakeholders. Created database triggers and audit tables in PostgreSQL for version control, change tracking, and data lineage. Connected ERP and operational events to reporting pipelines, Slack notifications, and KPI monitoring tools to improve response time and accountability.
- Developed a web interface in JavaScript for project tracking, enabling employees to upload and manage documentation linked to clients and builders. Implemented role-based access control (RBAC), user activity tracking, and engagement monitoring to improve task completion, accountability, and document management processes.
- Implemented AI models for predictive maintenance, anomaly detection, sales forecasting, and operational pattern analysis using scikit-learn and XGBoost. Built models to identify production bottlenecks, forecast material demand, and predict cutting waste ratios, improving planning accuracy and resource allocation.
- All solutions were developed and maintained in English, with full technical documentation, deployment automation scripts, process mapping, and performance monitoring tools. This work established a connected automation and reporting ecosystem spanning ERP, BI, operations, and support functions, driving more reliable decision-making, stronger process control, and improved cross-functional execution.

Jan 2023 — Dec 2023

Data Scientist , Gringconstruc

Quito

Río Blanco and Toabunche Hydroelectric Project

- Conducted **flow data analysis** from three rivers to evaluate hydrological behavior and energy potential.
- Performed **data projections** to determine flow occurrence and flood frequency using statistical modeling.
- Estimated **energy generation capacity** and **projected revenue** based on historical and simulated data.
- Designed a **business model for energy sales**, integrating financial, technical, and operational variables.

Jan 2023 — Nov 2023

Financial assistant | Hydraulic Engineer, USFQ

Quito

Primavera Project

- Analyzed cost data and sales projections for a building construction project.
- Conducted site analysis and evaluated internal and external financial leverage.
- Performed an economic and financial study, including key indicators such as IRR, NPV, cost-benefit ratio, ROA, and ROE.
- Designed a business model for real estate sales and carried out cost sensitivity analysis.
- Determined the final feasibility and profitability of the project.

Potable Water System for the Canton of General Antonio Elizalde

- Conducted population data analysis to determine growth trends and future projections.
- Estimated revenue forecasts for a public water utility based on demographic and consumption patterns.
- Evaluated alternative purification technologies for the water treatment process.
- Performed final cost analysis and developed a business model for potable water supply and sewage management.

Jan 2022 — Dec 2022

Data Analyst | Financial advisor, Gringconstruc

Quito

San Antonio 100MW Photovoltaic Project

- Analyzed **solar radiation data** to develop a **typical meteorological year projection** for energy assessment.
- Projected **energy production and potential revenue** using statistical and financial modeling.
- Designed a **business model for energy sales**, incorporating profitability and long-term sustainability analyses.

EDUCATION

Aug 2018 — Dec 2023

Civil Engineer, Universidad San Francisco de Quito

Quito

Educational Project 1:

- Conducted a cost analysis and sales projection for a building construction project, including site evaluation, internal and external financial leverage, and a comprehensive economic study incorporating key financial indicators such as IRR (Internal Rate of Return), NPV (Net Present Value), and cost-benefit analysis. The project emphasized the use of data analytics and financial modeling to assess profitability and optimize investment decisions, aligning with data-driven methodologies applied in business intelligence and automation.

Thesis Project:

- Developed the design of a hydroelectric power plant on the Toabunche River, Intag Valley, integrating hydrological analysis, map generation with ArcGIS, and 3D modeling of the intake structure using Civil 3D. Combined topographic satellite data with simulation tools to optimize design efficiency and environmental impact. The project reflects the integration of engineering principles with data analytics and automation, reinforcing the transition toward applying data science and business intelligence to infrastructure and energy systems.

Feb 2025 — May 2026

Masters in Data Science and Business Intelligence , Universidad de las Américas

Quito

- Focuses on transforming data into strategic insights that drive informed decision-making across organizations. The program combines advanced topics in data analytics, statistics, machine learning, and big data management, emphasizing the integration of analytical models with business objectives. Students develop technical proficiency in tools such as Python, R, SQL, Power BI, and Tableau, while gaining a solid understanding of data governance, visualization, and predictive analytics to solve real-world challenges effectively.
- Throughout the program, I have strengthened my ability to design end-to-end analytical solutions, from data extraction and transformation (ETL) to dashboard automation and predictive modeling. The coursework emphasizes practical application through projects involving business process optimization, financial forecasting, and operational analytics, preparing professionals to bridge the gap between technical analysis and strategic business intelligence within modern data-driven environments.

SKILLS

Business Model	Expert	Python (Programming Language)	Expert
Data Analysis	Expert	Microsoft Excel	Expert
Cost Benefit Analysis	Expert	Research Skills	Expert
Economy	Expert	Mathcad	Expert
Sensitivity Analysis	Expert	MATLAB	Expert
Knowledge of Finance	Expert	SQL Databases	Expert
Real Estate	Expert	Adaptability	Expert
Site Analysis	Expert	Decision Making Skills	Expert
Construction	Expert	Python	Experienced
Photovoltaics	Expert		

LANGUAGES

Inglés	Highly proficient	Español	Native speaker

COURSES

Jul 2024 — Aug 2024	Get started with Python, Google
Jul 2025 — Aug 2025	Foundations of Data Science, Google
Jan 2026 — Feb 2026	Foundations of User Experience (UX) Design, Google