Nicolas Lozano Mazuera

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Professional Profile

Bilingual Data Scientist (English/Spanish) with experience in SQL, Excel, Python, and Salesforce, applying data validation, CRM migrations, and reporting to improve business operations. Skilled at designing lightweight tools and demos that simplify complex systems, whether guiding non-technical users through platforms, onboarding customers, or creating dashboards for small businesses. Background spans QA testing in simulated environments, freelance development projects, AI research, and more. Currently completing a Master's in Data Science & AI; certified as AWS & Azure Practitioner and AWS AI Practitioner.

IT Work Experience

Freelance Researcher   **Self-employed**   **08/2024 – 06/2025**

Worked on two major AI-driven environmental initiatives in Valle del Cauca: a hydrology management and forecasting project, and a biogas power generation proposal that explored turning coffee waste into renewable energy.

- Produced technical research and introduced multi-agent coordination models for energy distribution, which earned recognition from project partners and demonstrated potential to boost projected energy output efficiency by 15%.
- Helped advance research on a state-of-the-art forecasting model that projected to cut water allocation conflicts by ~20%.

Freelance Developer   **Self-employed**   **10/2024 – 03/2025**

Built low-cost digital solutions for small businesses, with a focus on data migration and CRM-style systems that simplified daily operations.

- Migrated the barbershop's client and sales data from manual records into a CRM-style platform, cutting data entry time by ~40% and reducing reporting from hours to minutes.
- Designed simple dashboards for staff to track clients and sales, enabling the owner to generate monthly KPI reports on demand for the first time.

Academy Scrum Master   **FDM Group**   **06/2023 – 09/2023**

Led a team of 14 consultants tasked with presenting cybersecurity assessments and live technical demos to TD Bank's IT staff, as part of an engagement initiative between FDM and the client.

- Organized two sprint cycles and coordinated deliverables, enabling the team to deliver 100% of planned demos on time to TD Bank stakeholders.
- Presented live exploit demonstrations (SQL injection, XSS) that were praised by client staff for clarity and relevance.

Quality Assurance Analyst   **IGM Financial**   **03/2022 – 06/2023**

Tested Salesforce platforms with SQL queries and virtual machines to ensure data accuracy, stability, and functional integrity across multiple environments for financial services clients. Collaborated with cross-functional teams to deliver reports, test plans, and UAT support.

- Designed and executed SQL test queries that caught ~15% more data integrity issues before release, preventing client-visible errors while working across both Scrum and later Kanban delivery models.
- Documented defects and coordinated fixes with business users in UAT, shortening issue resolution time by ~20%.

Cloud Practitioner Trainee   **FDM Group**   **01/2022 – 03/2022**

Entered FDM through an intensive training program in cloud and DevOps, covering AWS and Azure services before being placed with a QA-needing client.

- Ranked second highest in overall score in the AWS certification out of a group of 18 trainees.

Co-Founder and Developer   **Skllr**   **05/2021 – 11/2021**

Worked in a team of 3 developers to build and launch a social platform prototype showcasing users' skills across sports and disciplines. Originally a university project, later expanded with real users to gain practical experience in full-stack web development.

- Built the platform's front end (HTML, CSS, JavaScript) with search and filtering features, aiming for a state-of-the-art social media look and feel with a unique design touch.
- Applied SEO strategies and maintained the site post-launch, improving visibility and supporting early adoption.

Systems Manager   **The Lane LLC**   **07/2020 – 01/2021**

Managed budget allocation for IT and office equipment purchases at a transportation logistics start-up. Later transitioned into system maintenance, website visibility improvements, and support for HR operations, including warm-calling prospective candidates to explain the company's mission and pre-qualify potential hires.

- Reduced costs by 10% by integrating Google-based Services and automated new-hired application process.
- Initiated over 70 prospect outreach calls, verifying initial screening to identify promising candidates and passing them along for next-stage evaluation.

Junior Lab Coordinator   **Wilfrid Laurier University**   **08/2017 – 04/2018**

Invited to support CP104 (Introduction to Programming) after earning top marks in the course; assisted students with programming fundamentals and maintained academic standards.

- Delivered one-on-one Python support, helping dozens of students complete labs and assignments successfully.
- Ensured academic integrity and reinforced coding best practices, which contributed to fewer plagiarism cases during the term.

Non-IT Work Experience

Documental Director   **Unión Temporal Verde Pacífico**   **02/2025 – Present**

Directed project documentation and compliance reporting for a large-scale restoration initiative, ensuring accuracy and accountability across deliverables.

Direct Support Worker   **Community Living Cambridge**   **12/2021 – 07/2024**

Supported individuals with daily needs while building trusting relationships, maintaining confidentiality, and producing detailed reports that earned high inspection praise.

Customer Support Agent   **Arvato Bertelsmann**   **09/2018 – 04/2019**

Delivered Tier-2 support across phone, chat, and email, resolving escalated cases and guiding non-technical customers in navigating the website and completing orders.

Education

Master of Data Science and Artificial Intelligence   Universidad Autónoma de Occidente   02/2025 – Present
Machine Learning and Deep Learning Specializations   Stanford Online University   01/2024 – 08/2024
Bachelor of Computer Science and Geography Minor   Wilfrid Laurier University   09/2016 –10/2021

Certifications

AWS AI Practitioner
AWS Cloud Practitioner
AZURE Fundamentals (AZ-900)

Technologies and Tools Used

Data & Analytics: SQL, Excel, Power BI, Pandas, NumPy, Matplotlib, Seaborn, BeautifulSoup, Google Analytics.

Programming Languages: Python, Java, C, JavaScript, HTML, CSS**.**

Developing: Git/GitHub, Linux CLI, Warp, VS, Copilot, Streamlit.

Machine Learning & AI: Prompt Engineering, Scikit-learn, TensorFlow**/**Keras, PyTorch, Transkribus, Dialogflow, LangChain**.**

Cloud & Infrastructure: AWS (S3, IAM, EC2, CloudTrail, CloudWatch, WAF, Lambda), Azure (Fundamentals, VMs, Storage, AI), Google Cloud, Docker.

QA & Testing: Salesforce, Selenium, VMs.

Hardware & Embedded: Arduino, Raspberry Pi.