

Juan Mario Sosa Romo

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SUMMARY

Experienced developer with strong data skills, proficient in SQL, Python and data visualization, delivering scalable solutions and insights that drive decision-making.

WORK EXPERIENCE

Technical Support Professional (Intern) @ IBM

03/25 – Present

- Developed automated reporting pipelines and executive dashboards with Python, Power BI and Excel, reducing processing time by over 90%
- Managed portfolio analytics for IBM Cloud accounts valued up to \$9M, tracking KPIs and service performance using Cognos, BSS Dashboard, ServiceNow and Gainsight.
- Provisioned IBM Cloud infrastructure (VPC, VSI) and supported resolution of complex network connectivity issues involving VPN tunneling.

Software Engineer (Intern) @ Institute of Applied Science and Technology

06/22 – 12/22

- Developed 150+ Manim animations of deformable media physics using Python (Jupyter/Colab) for course content and public demos

PROJECTS

MeIA — Data Mining & NLP (UNAM, 2025)

Repo

- Built end-to-end AI pipelines and an NLP sentiment-analysis model for *Pueblos Mágicos* using Transformers, domain adaptation and data amplification
- Placed top 35/191 (18 %) within 5% of the top team's performance

NASA Space Apps Challenge 2025 — *Minima Acción*

Repo

- Led a multidisciplinary team (6 members) to deliver an MVP and reproducible pipeline in 48 hours; built a Streamlit interface and demo to showcase the full data-to-prediction flow
- Applied AutoML + foundational models; feature engineering and validation increased model confidence to 98.5%

EDUCATION

08/22 - 04/26 Bachelor's Degree at **U.N.A.M**

GPA: 9.71/10

Projects

GitHub

- Web application that facilitates access to and sharing of academic and professional opportunities; uses Django, React, Docker and PostgreSQL
- Created a blockchain system with pBFT consensus in Elixir, simulating distributed processes and fault tolerance

08/21 - 04/22 Computer Technician at **U.N.A.M**

GPA: 9.9/10

SKILLS

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|----------------|---|
| Programming | Python, SQL, TypeScript, C#, Java, Pandas, scikit-learn, Transformers |
| DevOps & Cloud | Docker, GitHub Actions, IBM Cloud, AWS, Linux |
| Tools | Power BI, Excel, Postman, Agile, PowerPoint |
| Languages | Spanish (native), English (professional working proficiency) |