

José Javier Gutiérrez-Ramírez

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EDUCATION

Tecnológico Nacional de México <i>M.S. in Computer Science (GPA: 96/100, Honorable Mention Candidate)</i>	León, México Feb. 2024 – Feb. 2026
Tecnológico Nacional de México <i>B.S. in Computer Systems Engineering (GPA: 90/100)</i>	León, México Aug. 2018 – Dec. 2023

TECHNICAL SKILLS

Languages: Python (PyTorch, TensorFlow), TypeScript, JavaScript, Node.js, SQL, Java
Frameworks: React, Express, FastAPI, Flask, WebSockets, Socket.io, Flutter
Tools & Platforms: Git, Docker, Google Cloud (GCP), Cisco Networking (CCNA), Linux
Specialized: Computer Vision, Neural Networks, IoT (Sensors), Open Source DIYbio

EXPERIENCE

Lead Software Developer & Co-founder <i>Singularity (Open Source DIYbio Collective)</i>	Feb. 2023 – Present León, Gto
– Engineered Bioharvest , an AI vision system for automated microalgae monitoring using real-time neural inference.	
– Architected Evaluasaurio , a secure web platform for institutional evaluation using Node.js and React.	
– Deployed decentralized solutions focusing on frugal innovation and open-source scientific hardware.	
Fullstack Developer (Contract) <i>C5 & FESPE (Public Safety Agency)</i>	Jan. 2024 – Aug. 2024 Guanajuato, México
– Developed a mission-critical fleet monitoring platform with real-time tracking, geofencing, and sub-second latency.	
– Implemented backend services using Socket.IO and Node.js for live operational data synchronization.	
Data Science Content Developer <i>Chambamódulo (Municipal Program)</i>	May 2023 – Dec. 2023 León, Gto
– Authored 80+ hours of advanced instructional material on Data Analytics and Python-based visualization.	

PUBLICATIONS & RESEARCH

Scientific Article (JCR Q2) <i>Eng Journal, MDPI</i>	2025
– "A modular framework for RGB image processing and real-time neural inference." DOI: 10.3390/eng6090221	
International Speaker	2023 – 2024

- Keynote on AI and Bioinformatics in **Colombia (ACOFI)** and **Guatemala (Bioinformatics Retreat)**.

PROJECTS

NASA Space Apps Challenge <i>Satellite Data, Python, AI</i>	2024, 2025
– Collaborated on aerospace challenges using NASA's open-source satellite data for environmental monitoring.	
Glucontrol <i>Data Science, Fullstack</i>	2023
– Correlation engine analyzing nutrition impact on glycemic levels using data-driven insights.	
Axiom <i>Blockchain, Open Science</i>	2023
– Decentralized registry for scientific transparency and verifiable research data.	

CERTIFICATIONS

Google Cloud: Scaling and Automation Core Infrastructure Specializations
Cisco: CCNA: Enterprise Networking, Security, and Automation