

Rebeca Estephania Angulo Rojas

Querétaro – Mexico

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Software engineer with a strong foundation in mathematics, statistics, and data science. Specializing in software architecture design, full-stack system development, cloud infrastructure, and cybersecurity practices. Experienced in delivering end-to-end solutions — from system design and database modeling to cloud deployment and quality assurance. Background in machine learning, deep learning, and statistical learning applied to real-world problems in biodiversity analytics. In an AI-driven era, focused on architectural thinking and robust system design over language-specific expertise.

Education

- **Instituto Tecnológico Autónomo de México (ITAM)** **Mexico City, Mexico**
○ *Bachelor of Science in Applied Mathematics. Thesis with Honors Distinction.* *2017–2022*
GPA 9.03/10

Work Experience

- **Software Engineer — Freelance** *Sep 2025 – Present*
Freelance / Project-based
Designing and delivering complete software systems with a focus on architecture, cloud infrastructure, and security best practices.
 - Led project management using **Jira**, defining user stories, sprint planning, and coordinating deliverables across stakeholders.
 - Designed and developed full-stack web systems, including a **CRM** and a **PLD (Anti-Money Laundering)** compliance platform using Laravel (PHP Framework).
 - Architected cloud-based deployments on **DigitalOcean**, managing server provisioning, SSH access, environment configuration, and production releases.
 - Applied cybersecurity best practices throughout the development lifecycle, including secure authentication flows, environment isolation, and access control.
- **Software & Computer Vision Engineer — Biometrio.earth** *Nov 2022 – Sep 2025*
German Startup — Remote
Software engineering, computer vision pipelines, and cloud infrastructure for biodiversity monitoring systems.
 - Designed and executed ETL pipelines integrating camera trap sensor data at scale.
 - Designed a database abstraction layer using multiple ORMs, enabling engine-agnostic queries and standardized data access across heterogeneous data sources.
 - Designed and implemented a class-based architecture for managing computer vision and bioacoustics data, standardizing the handling of structured and unstructured sources (images, audio, video metadata).
 - Managed cloud infrastructure on **AWS**, including EC2 instances, S3 storage, and deployment pipelines.
 - Performed quality assurance (QA) and unit testing to ensure software reliability across production systems.
- **Data Analyst — Profuturo (Retirement Fund Administrator)** *Aug 2021 – Jan 2022*
Data science and analytics projects, including processing large-scale financial datasets and generating business insights to support decision-making.

Skills

- **Software Architecture & System Design:** End-to-end system design, RESTful API architecture, database modeling.
- **Cloud Infrastructure & DevOps:** **AWS** (S3, EC2), **DigitalOcean** (droplets), Docker, Git/GitHub. Experienced in full deployment lifecycles from development to production.
- **Project Management:** Agile methodology, sprint planning, user story definition in **Jira**. Experience leading technical teams in international and cross-functional environments.
- **Web & Backend Development:** Experienced in designing systems across multiple frameworks, prioritizing architectural decisions.
- **Data Engineering & Databases:** Strong experience with RDBMS (PostgreSQL, MySQL, SQL Server). ETL pipeline design, complex queries, and performance optimization.
- **Data Science & Machine Learning:** Statistical modeling with R and Python. Machine learning, deep learning, and computer vision using **PyTorch** and **TensorFlow**.
- **Languages:** Spanish (Native), English (CEFR B2), German (Goethe-Zertifikat B1).