

César Lestath Rivera

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EDUCATION

CETYS University

Bachelor of Science in Computer Science (Current GPA: 96/100)

July 2024 - 2028

- **Competitive Programming Club / Founder**

August 2025 - Present

15+ students enrolled. Free mentoring for all members

Hosted a competitive programming contest among club members

- **Fox Coding / Programming Club**

August 2024 - Present

Mentoring students on technologies such as React, Express, and MongoDB

EXPERIENCE

Redspira (civil association) / Volunteer

September 2025 - Present

Database design

Mexico, Remote

- Designed and implemented the user side of the new database model in PostgreSQL
- Migrated millions of rows from the old model to the new one using custom Python scripts which were actually used in production, and successfully adapted production environment to work with the new DB model

Projects / Activities

Machine Learning algorithm implementation / Project [≥](#)

February 2026

- Implemented machine learning algorithms such as gradient descent from scratch (only numpy)
- Full documentation in a Jupyter Lab notebook along with math explanations such as the MES Formula

Space Apps / Hackathon (3rd Place) [≥](#)

November 2025

- Awarded 3rd place at the NASA International Space Apps Challenge for developing a data-driven decision-support system that evaluates the environmental and resource impact of new industrial developments.

Fox Coding web page / Project [≥](#)

October 2025

- As a team, we developed the front-end side of our programming club
- Used the Next framework + Typescript for development

Server Side Java Game / Project [≥](#)

May 2025

- Designed a basic client-server architecture using a dedicated server class to manage game flow with WebSockets.
- Integrated optional MySQL database connectivity, including support for Docker-based deployments.

SKILLS & INTERESTS

Strong: Python, JavaScript, C++, Flask, Git. **Mid:** PostgreSQL, Next, Express, React, MongoDB

Languages: English (Fluent) • Spanish (Native) • Japanese (Basic)

Coursework: Data structures and algorithms, data base design, linear algebra, calc 1-3, OOP

Interests: Passion for competitive programming and machine learning. • Reading • Language learning