Miguel Angel **Garza Carranza**

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Education

Instituto Tecnológico de la Laguna — Coahuila, México
Bachelor of Science in Computer Systems - GPA: 91/100 — *December 2025*

Work Experience

CENACE — Coahuila, México
AI Engineer Intern — *September 2025 - December 2025*

- Developed a Temporal Fusion Transformer (TFT) for electrical demand forecasting using weather and load data.
- Built an end-to-end Python forecasting pipeline with Darts for data processing, model training, and forecasting.
- Achieved **2.56% MAPE** with accurate, interpretable probabilistic forecasts for power system operational planning.

Meta (Facebook) — Seattle, WA
Software Engineer Intern - Media Metrics — *May 2025 - August 2025*

- Developed internal tool that handles over **2 billion events per minute** covering Reels, videos, live videos, and ads.
- Processed all video playback events across all of Meta's Family of Apps (Instagram, Facebook, WhatsApp, Threads, Messenger, Oculus, etc), and converting them to meaningful metrics such as video views, watch time, and more.
- Backend processes **trillions of events per day**. These metrics are crucial for monetization, insights and analytics.

Meta (Facebook) — New York, NY
Software Engineer Intern - Professional Dashboard — *May 2024 - August 2024*

- Worked with cross-functional teams and members to successfully implement a feature for millions of users.
- Led experiment review on ProDash translation, resulting in its release and increasing engagement by **0.7182%**.
- Proposed and implemented multiple improvements to the original project plan using Bloks, Hacklang, and EntSQL.

John Deere — Coahuila, México
Software Engineer Intern - Control Tower — *Jan 2024 - May 2024*

- Supported worldwide Supply Chain application using React, JavaScript, TypeScript, Elasticsearch, and Docker
- Delivered production-ready features accepted by the Product Owner and Stakeholders, ensuring project success.
- Collaborated within an agile team, contributing significantly to all phases of software analysis and development.

Meta (Facebook) — Menlo Park, CA
Software Engineer Intern - CAA New Platforms — *June 2023 - August 2023*

- Created Ans2Ask, a full-stack web application from scratch using ReactJS, NodeJS, ExpressJS, Sequelize for the database, and Python for the Machine Learning (ML) models, with the guidance of Meta Engineers.
- Learned about project planning, how to write code efficiently and how to navigate through a giant codebase.
- Developed 3 weekly projects, as a training for web development, using Meta's Technologies.

Leadership Experience

Competitive Programming Club ITLag — Coahuila, México
Instituto Tecnológico de la Laguna — *Sept 2022 - Present*
Founder, president, and head coach of the club.

- Mentored **100+ active members** in advanced data structures, dynamic programming, graph theory, and C++.
- Coached and qualified 6 distinct teams to the **ICPC Mexico Finals** across multiple regional cycles.
- Led and prepared 3 teams to represent the institution internationally at the **ICPC Texas Regional 2025**.

Honors and Awards

- **State Champion** for Coahuila in the "ICPC Mexico Finals 2025" w/ team: gatOS. – Nov 2025
- **1st place** out of 675 contesting teams, "Coding Cup TecNM 2025" w/ team: gatOS. – Oct 2025
- **2nd place** out of 20 contesting teams, "The 2025 ICPC TXST Texas-Mexico" w/ team: EspantaBugs. – Apr 2025
- **1st place** out of 183 contesting teams, "8° ITS San Pedro Contest" w/ team: Usurpadores. – Nov 2024
- **3rd place** out of 625 contesting teams, "Coding Cup TecNM 2024" w/ team: Usurpadores. – Oct 2024

Skills Summary

Languages: C++, Python, JavaScript, TypeScript, Hack/PHP, Java, SQL
Frameworks & Technologies: React, Node.js, Express, Docker, Elasticsearch, Darts, Git, MySQL, TablePlus
Languages (Spoken): Spanish (Native), English (Fluent / Professional Proficiency)