

# Miguel Angel Garza Carranza

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## EDUCATION

**Instituto Tecnológico de la Laguna**

*Bachelor of Science in Computer Systems - GPA: 93/100*

**Coahuila, México**

*Graduating in June 2026*

## WORK EXPERIENCE

**Clever Cloud**

*Software Engineer Intern*

**Remote**

*Jan 2023 - Present*

- Developed new screens to display current products of 17+ clients in a table format within their respective instances.
- Implemented CRUD operations from scratch to manage and display  $\approx 30$  e-commerce products on the website.
- Worked on the project with PHP, VueJS, and MySQL.

**Omega Up - Mexican Female Olympiad in Informatics**

*Organizing Committee @OFMI*

**Remote**

*Dec 2022 - Present*

- Author of the "Zombies" problem that will play a role in classifying  $\approx 110$  competitors in the country.
- Contacted 24 universities around México to motivate their girl students to participate in the Olympiad.
- Decided in a team of 21 members to use the T3 stack (consisting of TypeScript, Next.js, and React) over the Lavarell framework to avoid typing chaos and to use the same language for both the frontend and backend of the website. ✍

## LEADERSHIP EXPERIENCE

**Competitive Programming Club ITLag**

*Instituto Tecnológico de la Laguna*

Co-Founder, president, and teacher of the club.

**Coahuila, México**

*Sept 2022 - Present*

- Designed the roadmap and currently managing the discord and social media. ✍
- Improved the knowledge of 50+ members by teaching C++ , time complexity, and basic algorithms.
- Participated in the "Coding Cup TecNM 2022" w/ the team EspantaBugs, **ranked 5 out of 684 teams**.
- Competed in the "Grand Prix of Mexico - ICPC 2022" w/ the team EspantaBugs, **ranked 24 out of 295 teams**.
- Contributed to the "7° ITS San Pedro Contest" w/ the team EspantaBugs, **ranked 3 out of 160 teams**.

## PERSONAL PROJECTS

**Reference for Competitive Programming ✍ | C++**

**March 2022 – Present**

Collection of classical algorithms and data-structures implementation for competitive programming involving distinct areas such as graphs, geometry, strings, number theory, and combinatorics.

- Went from position 135 to 24 (+ 462.5%) in the ICPC in just a 6-month gap with its use.
- Maintaining the GitHub repository along with 2 ICPC teammates.

**Conquering Seattle ✍ | PHP, JavaScript, MySQL, Workbench, Sass, Gulp**

**April 2022 – June 2022**

Full-stack Real Estate web application developed for self-learning PHP, Javascript, and SQL from scratch.

- Learnt PHP's database interaction capabilities by creating secure forms that collect, validate, and store user data.
- Maintained data persistence by implementing a CRUD app by learning SQL operations in 2 months.

## HONORS AND AWARDS

- **16th place** out of 92 contestants, "2022 Annual programming contest Donald Knuth". – August 2022
- **2nd place** out of 42 contestants, "Google Kickstart Round B Mexican Top" w/ user: maiky. – April 2022
- **9th place** out of 110 contestants, "Programming League - Phase 2" w/ user: maikyh. – January 2022
- **Gold Medalist** in the "XVIII Regional Mathematics Olympiad (ONMAPS)" of Coahuila. – May 2018
- **Outstanding participation** in the "II Mexican Mathematical Olympiad (OMMEB)". – January 2018

## SKILLS SUMMARY

**Programming Languages:** 1 year: C++, Java — 6 months: JavaScript, PHP — 3 months: Python, SQL

**Technologies:** HTML5, CSS3, Git, MySQL, WorkBench, Gulp, Sass, ReactJS, VueJS, Firebase

**Languages:** Spanish(native), English(fluent-B2)