

# Alonso Huerta Escalante

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## Education

Software Engineer. GPA: 96/100

Expected Graduation: July 2026

ITESM Instituto Tecnológico de Educación Superior de Monterrey, Campus Monterrey - Monterrey, Nuevo León

## Experience

### Mexican Informatics Olympiad Committee (COMI)

Started May 2022

Assistant Professor of Yucatan's Delegation

- Led state's team to win **5th place in Mexican Informatics Olympiad 2022 27° Edition** [Table & Standings](#)
- **Taught** introduction to **programming**, advanced **math**, **algorithms** and **data structures** classes

### South Mexican MUN (SMMUN)

Started July 2021

Secretary of Technology and Logistics

- Developed organization's **website (smmun.com)**. Easy to navigate interface. [Website](#) [Github](#)
- Made using **HTML**, **CSS/Bootstrap** and **Javascript**. **Automation of content generation**.
- An average of **120 visitors** in high traffic months

## Awards

### Informatic Olympiads/Contests

- **Gold Medallist, 6th place overall**, in Mexican Informatics Olympiad 2021 26° Edition [Table & Standings](#) [Diploma](#)
- **First Place Meta FEE Tec de Monterrey Coding Contest 2022** [Table & Standings](#)
- Codeforces Ranking 1671 (**Expert**) [Profile](#) [Github](#)
- **"Best Blockchain Implementation"** in Hackathon MTY 2022
- **Sofftek Generative AI Challenge First Runner Up**
- **ICPC Regional (Mexico) 2022 season**
- **ICPC Regional (Mexico) 2023 season**

## Projects

### Starter Space – Technology Director

February 2023

**Description:** Led development of three components using **Rust Actix-web**, **Rust SQLX**, **Rust Yew**, **Webassembly**, **DNS**, **AWS**, and **Next.js**: a **gamified incubator**, a platform for viewing project proposals and **connecting** with **collaborators**, and a **club guidance program** for university students starting a tech club.

**Impact:** **Positive interest** and reviews from both **public** and **private** sectors. The project has the potential to foster entrepreneurship in Mexican universities and create a network of entrepreneurs.

### Multiwindow-output – [Crate](#)

December 2022

**Description:** Developed a **Rust crate** that enables programs to have efficient, beautifully formatted output using **advanced data structures**, **complex algorithms**, and **parallel programming**. The crate makes use of **low-level functionalities** to allow the manipulation of terminal output screens and enables single programs to have multiple window outputs.

**Impact:** The crate has been **downloaded** over **150 times**, indicating interest in its functionalities and potential for broader impact in enabling more efficient and aesthetically pleasing program output.

### .dotfiles – [Github](#)

May 2023

**Unix-like configuration** files for various command-line tools and applications. This project showcases my skills in **shell scripting**, **version control**, and **software configuration management**. The repository includes customized settings and key bindings to optimize productivity and workflow efficiency. These configurations are designed to enhance software development environments by providing users with a personalized and efficient experience.

**Programming Skills:** Rust, C++, C, Python, Javascript, SQL, Git, AWS, Azure, Google Cloud, OpenAI, DNS, PHP, Bash