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 27º 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 26º 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
- **Softtek Generative AI Challenge First Runner Up Hackaton MTY 2023**
- **ICPC Regional (Mexico) 2022 season Finalist**
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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