Jose Juan Suarez Elizalde

✉ jojusuarez46@gmail.com   ⬡ JoseJuanSE   ☎ +(52) 55 8379 9278   in josejuanse

Software Engineer with a strong foundation in algorithms and data structures, and a proven track record of delivering high-impact solutions at Meta and Amazon. Recognized for rapid learning, exceptional problem-solving skills, and the ability to tackle complex technical challenges.

Experience & Projects

Meta — Software Engineer, Instagram Mobile Architecture
Starting February 2026 | New York, NY

Meta — Software Engineer Intern, Instagram Mobile Architecture
May 2024 - August 2024 | New York, NY

- Led a critical refactoring of Instagram's API generation framework in Rust, improving system modularity and maintainability.
- Discovered a critical flaw in the project's original plan; independently designed and implemented a correct solution for schema cycle-detection using Tarjan's algorithm, making the system faster, simpler, and more scalable.
- Exceeded goals by migrating 85+ API schemas and landing 120+ diffs, showing high productivity and ownership.
- Developed automation scripts that significantly reduced manual effort and accelerated the schema migration timeline.

Amazon — Software Development Engineer (SDE I)
January 2024 - July 2024 | Mexico City, MX

- Developed and maintained features for Alexa's photo-delivery service, handling over 200B photos/month.
- Resolved 4 critical SEV-2s & 7 SEV-3s during first on-call rotation, ensuring high service availability.
- Executed gradual service migrations across multiple regions using MCM weblabs to minimize risk and ensure stability.

Meta — Software Engineer Intern
May 2022 - August 2022 | Menlo Park, CA

- Developed key avatar recording/playback features for Horizon Worlds, showcased in the Connect 2022 keynote.
- Re-architected avatar playback to a single-threaded model, reducing complexity and eliminating race conditions.
- Optimized recording memory from $O(n)$ to $O(1)$, enabling longer, more stable recordings on Quest 2.

Facebook University — Intern for Engineering
June 2021 - August 2021 | Menlo Park, CA (Remote)

- Completed an intensive Android dev program, building an original app to demonstrate rapid learning.
- Received a return offer based on outstanding project performance and collaboration.

Competitive Programming & Projects
January 2015 - June 2024

- Top-tier results in programming competitions: 5th at ICPC Gran Prix of Mexico 2023 & 2nd in Mexico City Olympiad.
- Attended numerous intensive training camps, including an ICPC World Finals prep camp in Havana, Cuba.
- Contributed to the community by mentoring 40+ students, teaching algorithms at ESCOM, and creating problems for the Mexican Olympiad (OMI).

Education

B.S. in Computer Systems Engineering
Superior School of Computer Sciences (ESCOM, IPN)
2019 - 2025 | Mexico City

- Exchange Student (7th semester) at UPM, Madrid, Spain.

Technical Career in Informatics
Center of Scientific and Technological Studies Nº13 (IPN)
2016 - 2019 | Mexico City

- Won multiple awards in programming, math, & entrepreneurship, including 2nd place internationally in "Company of the Year"

Technologies

Languages
Rust, C++, C#, Python, Java, JavaScript, HTML/CSS

Technologies & Frameworks
Unity Engine, VR (Oculus SDK), Android, .NET, Git, AWS, GraphQL

Core Competencies
Algorithms, Data Structures, System Design, OOP, On-Call Support