

Education

Harvard University
Data and Artificial Intelligence Engineer

Guanajuato, MX
May 2026

Experience

aliA Guadalajara, MX
Lead Software Engineer Sept. 2025 - Present

- Directed cross-functional development team activities to ensure on-time delivery of complex software initiatives and adherence to technical standards
- Architected distributed system using microservices pattern, increasing platform scalability and maintainability by 50%
- Engineered full-stack application features using React and shadcn/ui components, enabling responsive, modern, and accessible user interfaces
- Implemented secure authentication frameworks leveraging JWT, strengthening application security and reducing unauthorized access risks
- Built and deployed microservices ecosystem that reduced system complexity and improved development efficiency by 40%
- Integrated machine learning models and large language models into production workflows, enhancing application intelligence and user interaction quality
- Managed CI/CD pipelines, container orchestration, and cloud infrastructure provisioning to streamline deployment processes and improve operational reliability
- Oversaw code quality, technical design reviews, and engineering best practices to maintain high standards of software craftsmanship

El Salmantino Guanajuato, MX
Software Developer Mar 2022– Sept. 2025

- Led end-to-end development of web application features that streamlined internal workflows and increased team throughput by 20%
- Engineered scalable backend services using modular architecture to improve system reliability and reduce maintenance overhead by 30%
- Implemented automated testing and CI/CD pipelines that decreased deployment time by 40% and reduced release-related defects
- Optimized database queries and data models, improving application performance and reducing average query latency by 25%
- Integrated third-party APIs and internal services to expand platform functionality and accelerate feature delivery
- Developed responsive user interfaces aligned with UX best practices, improving user engagement and task completion rates
- Collaborated with cross-functional teams to define technical requirements and deliver solutions aligned with operational objectives
- Monitored system health and executed performance tuning initiatives that enhanced platform stability and reduced downtime by 15%

Publications

University of Guanajuato Salamanca, Gto
[Data collection and analysis using AI techniques applied to the tourism sector](#) 2023

University of Guanajuato Salamanca, Gto
[Analysis of TikTok comments using NLP techniques to detect electoral trends](#) 2024

Skills & Interests

Technical: I possess extensive programming expertise in C, C++, Python, JavaScript, NodeJS, PHP, Laravel, MySQL, and Matlab. My technical toolkit includes proficiency with various APIs such as Graph API, Open Meteo API, Mapbox API, and Firebase, along with design tools including Figma and Adobe Suite

Language: I am a native Spanish speaker with fluent English proficiency, enabling effective communication in both languages.

Soft Skills: My professional strengths include exceptional teamwork and collaboration abilities, strong research and analytical thinking skills, effective communication, problem-solving and critical thinking capabilities, and adaptability and resilience in dynamic work environments.