

Armando Arredondo Valle

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PROFESSIONAL EXPERIENCE

Microsoft

Software Engineer

Mexico City

Sep 2025 – Present

- Architected and operated cloud-native distributed systems on Azure, implementing HA and DR strategies across Azure SQL, Cosmos DB, and storage layers
- Designed CI/CD release pipelines (OneBranch YAML + EV2) with staged deployments, slot swaps, and automated validation gates, reducing deployment failures
- Built end-to-end observability using Azure Monitor and Geneva, enabling sub-hour incident detection across production services
- Led live-site operations including incident response, root cause analysis, and DevOps governance in Azure DevOps

Software Engineer Intern

Feb 2025 – Aug 2025

- Developed an internal documentation chatbot using C#/.NET (MVC) with Azure OpenAI, improving knowledge retrieval for 300+ employees
- Built responsive front-end with React/TypeScript; implemented Azure Blob Storage and role-based authentication

Siemens Digital Industries

Information Technology Intern

Mexico City

May 2024 – May 2025

- Led end-to-end development of a full-stack production system using Java/Spring Boot with Oracle Database backend
- Delivered low-code interfaces in Mendix, driving adoption across cross-functional teams

Tecnocontrol Vehicular

Software Engineer

Cuernavaca

Feb 2024 – Apr 2024

- Developed backend services in Go and maintained legacy Node.js/PHP systems; optimized Oracle Database integrations

Sonder.mut

Software Developer

Mexico

Apr 2023 – Jan 2024

- Built and optimized Next.js front-end apps with SSR and Go/Fiber backend APIs for high-performance delivery

EDUCATION

Pontificia Universidad Católica de Chile

M.Sc. in Artificial Intelligence

Mar 2026 – Jul 2027

Tecnológico de Monterrey (ITESM)

B.S. in Computer Science and Technology

Aug 2021 – Jun 2025

GPA: 94/100

PROJECTS

TECXOTIC – NASA Rover Telemetry Dashboard

Real-time interface visualizing sensor telemetry from a human-powered rover; 1st Place at NASA HERC 2022.

JavaScript, React

Healthcare Access Analysis

Data-driven analysis of healthcare accessibility in Mexico post-Seguro Popular reform; published in Revista SAGA.

Python, Pandas

Planty – IoT Smart Plant Monitor

Full-stack IoT system with real-time sensor telemetry (moisture, temp, pH), automated pump control, and device authentication.

Next.js, Go, Arduino, PostgreSQL

PUBLICATIONS

- Velasco-Espinal J.A., et al., [Arredondo-Valle A.](#) (2025). *Evolución del acceso a servicios de salud en México tras la eliminación del Seguro Popular*. Revista SAGA.
- Fierro-Radilla A.N., et al., [Arredondo-Valle A.](#) (2022). *White Blood Cell Detection and Classification in Blood Smear Images*. Advances in Computational Intelligence.

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Java, C#, Go, Rust, C++

Frameworks: React, Next.js, .NET, Spring Boot, Node.js, Tailwind CSS, Vue.js

Cloud & DevOps: Azure (SQL, Cosmos DB, Blob Storage, Monitor, OpenAI), AWS, Docker, Vercel, CI/CD

Data & AI: PyTorch, CUDA, Pandas | **Databases:** PostgreSQL, Oracle, SQL Server, MongoDB, MySQL

Spoken: Spanish (Native), English (Professional), French (Professional), German (Elementary)

HONORS & AWARDS

1st Place Overall – NASA Human Rover Exploration Challenge (2022) | **2nd Place** – RPA Hackathon (2023)

Cuahunáhuac Medal (2024) | **Finalist** – Concurso Nacional de Programación Alan Turing