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EDUCATION

Monterrey Institute of Technology and Higher Education
B.S. Robotics and Digital Systems Engineering

Aug 2019 – Dec 2023
GPA 3.7 / 4.0

Minor in Advanced Artificial Intelligence and Data Science

Aug 2022 – Jun 2023
GPA 4.0 / 4.0

Shibaura Institute of Technology (Tokyo, Japan)
Summer AI and Robotics Program 2023

Jun – Jul 2023
GPA 4.0 / 4.0

- Implementing problem-solving projects for the Japanese industry using emergent technologies (Computer vision & AI).

EXPERIENCE

Amazon Web Services

Nov 2024 – Apr 2026

Cloud Support Engineer – AI/ML Team – Mexico City, México

- Resolved ML project issues across **SageMaker, Bedrock and Textract**, spanning training, deployment, and distributed inference. Supported 100+ projects from **healthcare, fintech, education, and retail**.
- Integrated **ML workflows** using AWS services (Lambda, S3, Redshift, OpenSearch) with Snowflake, Databricks, and Azure.
- Built an internal **troubleshooting tool** rolled out to 150+ AI/ML engineers worldwide, cutting diagnosis time on complex **cloud architectures**.

Deloitte (Consulting engineering services)

Jan 2024 – Nov 2024

AI & Data Analyst – Querétaro, México

- Consulted for enterprise clients, delivering **AI/Data solutions** across cloud architecture, pipeline design, and analytics.
- Cut **ETL** latency ~25% by redesigning AWS Glue workflows for large-scale pharma **data migration**.
- Boosted team productivity visibility ~20% via a **Power BI dashboard** tracking performance metrics.

PROJECTS

Cloud ML Demand Forecasting Pipeline

- Designed an **S3-based data lake** (raw / processed / artifacts) for reproducible **ML workflows**.
- Trained an **XGBoost forecasting model** in SageMaker Training Jobs reaching R^2 0.84 and MAPE 9.1%.
- Deployed a **real-time** SageMaker endpoint exposed via **Lambda + API Gateway**.

AI-Powered Knowledge Base Assistant

- Built a **semantic search assistant** (Next.js + FastAPI) over ~200 internal docs.
- Added Redis caching and **Dockerized services**, cutting query latency ~45%.
- Deployed on a personal blog, **reducing content lookup time ~70%**.

AWARDS

VEX Robotics National Championship / [VEX Robotics World Championship](#) – Dallas, TX (Team “ITSMQ”)

- Competed as a team **programmer** and mechanical designer, 1st place – **Judges Award**, earning qualification to Worlds.
- Ranked 24th globally out of 100 teams at Worlds, leading program testing for robot routines.

“Líderes del Mañana” scholarship program

- 100% tuition, merit-based, flagship ITESM scholarship.

SKILLS

LANGUAGES

Spanish Native
English Proficient
Japanese Basic

CERTIFICATES

AWS Machine Learning - Specialty (AWS, 2026).
AWS Machine Learning - Associate (AWS, 2026).
AWS Certified Solutions Architect (AWS, 2025).
Tableau Desktop Specialist (Tableau, 2024).
Fundamentals of Deep Learning (NVIDIA, 2022).

PROGRAMMING LANGUAGES

4 years: C++, Python
2 years: JavaScript, TypeScript
1 year: R, Java, Go

TECHNOLOGIES

Git, Linux environments/scripting, ROS, Android Studio
MongoDB, SQL, Django, FastAPI, React, Node.js, AWS, Azure, Redis
Docker, Kubernetes, TensorFlow, PyTorch, Pandas, PySpark, Tableau, PowerBI