

RESUME

Fernando Trevino

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SUMMARY

Specialized in the intersection of data, AI and cloud, with a background in automotive programs ranging from autonomous driving to enterprise-scale data platforms. Experienced in both technical leadership and system architecture.

EXPERIENCE

Siemens

Lead Architect

Frankfurt · Hybrid · 01/2026 – Present

- Designing and standardizing AWS cloud foundations and architecture across the organization.
- Defining multi-account strategy to enable scalable, secure, and governed cloud operations at enterprise scale.
- Designing network architecture for large-scale AWS environments.
- Architecting an AI-first application platform to modernize how engineering teams build and deploy software.

MBiton — Mercedes Benz Innovation Hub

Senior Software Engineer

Remote · Berlin · 09/2020 – 12/2025

- Architected and co-led development of a data platform in Databricks, Azure and AWS serving 2,000+ teams with custom metrics for project performance management — spawned a new department to integrate global defect data sources.
- Led development of a dozen data products measuring project maturity, defects, build times and feature costs across org levels from developers to C-suite.
- Orchestrated provisioning and management of 1,000+ AWS machines for training Nvidia Drive OS AI models for next-gen autonomous driving software.
- Solved cost governance for 50+ AWS accounts by aggregating billing datasets and building a visualization dashboard — resulting in \$2M USD in annual savings.

KPIT Technologies

Software Engineer

Munich · 04/2018 – 08/2020

- Initiated and led a video processing pipeline for scene detection and ground truth generation for BMW using MASK-RCNN models — output catalog streamlines model training for automated driving trajectory planning.
- Developed embedded software interfaces connecting lidar, camera, and GPS sensors to prototype BMW vehicle platforms using ROS nodelets for driving session recording.
- Created a Spark-based data conversion job to transform lidar and camera data into fusion object maps for ML labeling.

Mercedes Benz Trucks — Daimler

Master's Degree Candidate

Mannheim · 11/2016 – 09/2017

- Developed an ML model to predict energy consumption for Mercedes-Benz buses using fleet driving data — enables efficient route planning by forecasting consumption based on speed profiles, slopes, and road conditions.

EDUCATION

University of Texas at Austin

Master's degree — Artificial Intelligence

01/2024 – 12/2027

Online coursework, 1 course per semester on weekends.

Technical University of Braunschweig

Master's degree — Electrical Engineering · GPA 3.0/4

09/2014 – 08/2017

Thesis on energy consumption forecast for buses (Daimler-sponsored, GPA 4/4). Minor in Energy Technology.

ITESM

Bachelor's — Mechatronics with Honors · GPA 3.7/4

08/2009 – 05/2014

Specialized in Robotics and Control Engineering.

SKILLS

Python

AWS

Spark

PyTorch & TensorFlow

MLOps

DevOps

Terraform & AWS CDK

SQL

Scala

C++

JavaScript / TypeScript

Databricks

CERTIFICATIONS

Machine Learning Associate

Databricks · 05/2025

Terraform Associate

HashiCorp · 06/2023

DevOps Engineer

Amazon Web Services · 05/2022

Solutions Architect — Professional

Amazon Web Services · 11/2021

Security Specialist
Amazon Web Services · 11/2022

Data Analytics Specialist
Amazon Web Services · 11/2022

Advanced Networking
Amazon Web Services · 03/2022

LANGUAGES

English	Full proficiency
German	Full proficiency
Spanish	Native

AWARDS

EGEL Excellence Award
Ceneval · 05/2014

Top 2% on national Mechatronics undergraduate performance exam.

CONACYT Scholarship
Mexican Government · 05/2014

2-year full tuition + allowance scholarship for graduate studies abroad.

Rocca Scholarship
Roberto Rocca Foundation · 05/2013

Academic merit scholarship for undergraduate STEM students.

DAAD Merit Scholarship
German Exchange Service · 08/2012

Academic exchange scholarship for undergraduate STEM students.

ITESM Merit Scholarship
ITESM · 08/2009

Undergraduate tuition scholarship.

PROJECTS

Menuop.com
[Digital Menu Service](#)
Jan 2024 – Present

Side project to learn payments, Google Analytics and frontend design.

Northbots.com
[AI Copilots Platform](#)
2024 – 2025

Automation of business workflows using AI agents and a data marketplace.

Matlab Freelancer
[Technical Consulting](#)
11/2017 – 03/2018

Custom software for data processing and visualization for 12+ clients worldwide.