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https://linkedin.com/in/feruiloba https://github.com/feruiloba/ml

EDUCATION

Carnegie Mellon University
MS Engineering and Public Policy
December 2025

Instituto Tecnológico Autónomo de México
BS Industrial Engineering
June 2019

Instituto Tecnológico Autónomo de México
BS Computer Engineering
June 2019

WORK EXPERIENCE

06/2019 – Present Snappi, Mexico City – Founder and CEO
Building an EMR system that automates repetitive tasks, ensures interoperability, enables data-driven insights, and facilitates research in hospitals. Currently integrating AI into clinical workflows.

02/2020 – 08/2024 Microsoft, Redmond – Software Engineer II, Software Engineer I, SWE Intern 2018, Explorer Intern 2017
Worked in the Azure Policy service, a tool that allows organizations to enforce standards and assess compliance over cloud resources at scale (over 50 billion requests per day). Collaborated with key partners to integrate all features of the Azure Policy platform, including policy authoring, policy evaluation, policy enforcement, compliance reporting and compliance data analysis.

Summer 2016 SL Forense, Brasilia – Software Developer
Developed a web application for food delivery. This platform connected couriers with food delivery companies.

MAJOR PROJECTS

April 2025 Built an AI phone/voice scheduling system for health organizations. It used OpenAI, LiveKit, Deepgram and ElevenLabs tooling.

Winter 2025 Built an AI prompt-based video editing tool. Used Anthropic API, mediapipe models for face detection, and Vercel for deployment.

Winter 2017 Built a course schedule generator for classmates. Finds optimal schedule given constraints. It had over 500 users every semester.

RESEARCH EXPERIENCE

Fall 2025 Carnegie Mellon research collaborator. Draft paper
Development of the LongListeningThoughts (LLT) dataset designed to improve the reasoning capabilities of large audio-language models (LALMs) through Chain-of-Thought (CoT) traces enriched with fine-grained perceptual information. DeepSeek-R1 was used to generate long-form reasoning. Fine-tuned Qwen2.5-Omni with the LLT dataset for evaluation on different metrics.

Fall 2025 Supervised Program for Alignment Research (SPAR) mentee
Studying AI verification requirements, hardware-enabled mechanisms and their specifications and standards to assist in the challenge of verifying that all parties in an international setting follow agreed-on rules.

Fall 2025 Carnegie Mellon research collaborator
Created an automated audio labeling pipeline to generate enriched datasets for training multilingual English and Arabic text-to-speech models. Fine-tuned NeuTTS Air and DeltaNet architectures and conducted ablation studies.

Spring 2025 Carnegie Mellon research collaborator
Mapped European semiconductor supply chains to identify sourcing patterns and dependencies within key semiconductor categories. Developed a replicable tool for tracking semiconductor supply chains across various geographies.

Summer 2019 ITAM Industrial Engineering thesis author
Worked with faculty to produce a 50-page document analyzing the feasibility and design for a cloud-native, event-driven system for automating restaurant operations.

Winter 2018/19 Migrant workshop "Taller Nuevo Norte" in Mexico City and Guadalajara attendee
Did research and collaborated in projects aimed to aid migrants on the way to the United States.

Spring 2018 Stanford PhD candidate research assistant
Built a training set to classify 30,000 documents through logistic regression. The research improved our understanding of how indigenous communities survived colonization.

TRAININGS / RELEVANT COURSES

Spring 2025	Carnegie Mellon University 10-723 – Generative AI 11-785 – Introduction to Deep Learning	Summer 2019	Martin Trust Center for MIT entrepreneurship Epic Entrepreneurship and Innovation Bootcamp (imparted by Will Sanchez, Instructor & Entrepreneur in Residence)
Fall 2024	10-601 – Introduction to Machine Learning 17-720 – ML and Sensing for Healthcare		
		Spring 2018	Stanford/ITAM Introduction to Machine Learning for Social Scientist (imparted by Edgar Franco, Stanford PhD candidate)
Fall 2022	Stanford (Online) AI Series: Introduction to Healthcare		

TECHNICAL SKILLS

Programming Languages, Scripting Languages and Database Management Systems

C# (6 years)	Python (5 years)	MATLAB (2 years)	C/C++ (1 year)	CosmosDB (3 years)
JS/HTML/CSS (6 years)	Golang (5 years)	Ruby (1 year)	Kusto (4 years)	SQL/MySQL (5 year)
Bash (5 years)	Java (5 years)	Lisp (1 year)	PostgreSQL (3 years)	MongoDB (2 year)

Other Software / Frameworks

Pytorch (advanced)	Kubernetes (advanced)	VueJS (advanced)	NX 8.5 (intermediate)
Azure (advanced)	Docker (advanced)	Claude Code (advanced)	Simio (intermediate)

AWARDS AND LEADERSHIP

Fall 2025	Member of the AI Alignment Fundamentals program at the Carnegie Mellon AI Safety Initiative
09/2024 – 09/2025	Member of the Graduate Student Facilitation Board for Engineering and Public Policy department.
09/2024 – 09/2025	Engineering and Public Policy MS Graduate Student Association representative.
Jan 2018	Winner of the App ITAM contest organized by ITAM's student council with a website for student housing.
01/2018 – 12/2018	Board member of the out-of-state student association at ITAM.
09/2016 – 09/2017	Staff member, developer, and social media manager for the Forum for Cooperation, Understanding and Solidarity (FoCUS), a US-Mexico relations focus group led by students from Stanford and ITAM. Helped organize the Mexico City summit and attended the Palo Alto summit. Met industry and government leaders and developed international friendships.
01/2016 – 01/2017	Staff member of the Industrial Engineering student association.
Spring 2014	Captain of the English Debate team. Reached the 2014 Premio Internacional Bachillerato Anahuac finals.
Fall 2009	"Outstanding Achievement Award" at the Evan Thomas Institute in Philadelphia.