

Ulises Antonio *Ponce Pretelin*

Physical Therapist & Clinical AI Engineer

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← Portfolio

Summary

Physical therapy professional with experience serving special-needs populations in clinical, community and international settings. Clinical AI engineer: designing and integrating record workflows, referenced data, safety integrations (openFDA, RxNav), IASP/ICF terminology and support modules that respect professional judgment.

Recent experience

Physical therapist

2026 – Present

Speech therapy clinic

- Clinical care in an interdisciplinary speech therapy and rehabilitation setting.
- Progress documentation, care team coordination and functional goal tracking.

Engineer & creator

2024 – Present

PoncePretelin · clinical manager with AI

- Design and integration of the manager: multi-specialty records, episodes, SOAP, scheduling, finance and patient portal.
- openFDA and RxNav integrations, referenced IASP/ICF terminology, EBP scales and AI support modules.
- Stack: FastAPI, PostgreSQL, Next.js, TypeScript, Docker. Live demo

Education

BSc Physical Therapy

2019 – 2023

Institute of Sciences and Higher Studies (ICES)

Studies completed (certificate Oct 2023) · degree in progress

BSc Information Technologies in Sciences

2018 – 2021

ENES Morelia, National Autonomous University of Mexico (UNAM)

UNAM certificate · folio 619 · June 2022

Professional experience

Cabin Leader

2025

Citizens Options Unlimited · United States

- Direct coordination and supervision of a wheelchair-users cabin.
- Leadership and guidance of counselors in daily care, behavioral management and activities of daily living support.
- Implementation and supervision of physical and organizational adaptations for accessibility and safety.
- Promotion of campers' autonomy, participation and overall wellbeing.

Behavior Helper Supporter

2023

Citizens Options Unlimited · United States

- Collaboration with professionals in designing and implementing positive behavioral intervention plans.
- Support in behavioral regulation, adaptive behaviors and social inclusion.
- Individualized support for people with disabilities in community settings.
- Cultural and linguistic bridge between counselors and the work team.

Camp Counselor

2022

Citizens Options Unlimited · United States

- Facilitation of adapted recreational and educational activities for people with disabilities.
- Promotion of personal development, autonomy and functional independence.
- Continuous supervision for a safe, structured and enriching environment.
- Support in daily routines and inclusive community settings.

Social service

Physical therapist — social service

Aug 2023 — Jul 2024

ISSSTE Hospital Clinic · Xalapa, Veracruz

- Physiotherapy care in a public hospital setting, integrated into the ISSSTE clinical team.
- Assessment, treatment and follow-up during professional training (BSc Physical Therapy, ICES Xalapa campus).
- Completion of university social service required for graduation.

Professional internships

Xalapa, Veracruz

- Participation in the Occupational Health project: Strategies for Injury Prevention, Diagnosis and Treatment.
- Support in functional assessment and musculoskeletal risk analysis in working populations.
- Collaboration in injury prevention, basic ergonomics and physical wellbeing promotion in an institutional setting.
- Coordination with academic and technical staff in applied health research.

Xalapa International Velodrome

2023 – 2024

Xalapa, Veracruz

- Support in athletes' physical and functional assessment.
- Participation in injury prevention, physical recovery and conditioning programs.
- Assistance during therapy and training sessions applying biomechanics and movement control principles.
- Interdisciplinary work with coaches and sports support staff.

Certifications and courses

All

Clinical

Mental health

Coursera

Other

Clinical training

Geriatrics, CONAMEGE and health courses

Intervenciones Comunitarias Basadas en Evidencias

Inst. Nacional de Geriatria • abr – may 2022

Metodología de la Investigación en Geriatria

Inst. Nacional de Geriatria • abr – may 2022

Manejo de Heridas

CONAMEGE • mar 2023

Manejo Agudo

CONAMEGE • abr 2023

Trastornos Gastrointestinales

CONAMEGE · mar 2023

Diabetes

CONAMEGE · mar 2023

Insuficiencia Cardíaca

CONAMEGE · mar 2023

Síndrome de Down

Curso a distancia · abr 2023

Mental health and wellbeing

Abordaje de la Ansiedad

Curso a distancia · 2021

LASEA — Ansiedad

Curso a distancia · 2021

Mind Control: Managing Your Mental Health During COVID-19

Universidad de Toronto, Coursera · may 2021

Biohacking Your Brain's Health

Universidad Emory, Coursera · may 2021

Coursera · health and science

Atención Primaria en Salud: ENT

Pontificia Univ. Católica de Chile · jul 2021

Antimicrobial Resistance: Theory and Methods

DTU · jul 2021

Medicina tradicional China

Chinese Univ. of Hong Kong · jul 2021

Other

Educación Financiera

CONDUSEF · feb – may 2021

Google Get Business Online

Google Digital Garage · nov 2020

Clinical skills

Functional assessment and movement analysis for physiotherapy diagnosis.

Interventions focused on rehabilitation and injury prevention.

Care for people with disabilities: mobility, transfers and activities of daily living.

Positive behavioral intervention strategies for therapeutic adherence and social interaction.

Clinical documentation and progress tracking in interdisciplinary settings.

Clinical systems & AI

Clinical workflow design: records, episodes, SOAP and multi-specialty care.

Referenced IASP / WHO ICF terminology and EBP scales (NDI, ODI, Berg, TUG).

Clinical safety integrations: openFDA and RxNav.

Deployment stack: TypeScript, Next.js, Python, FastAPI, PostgreSQL, Docker.

Languages

Spanish — native

English — B2 (upper-intermediate, no certificate)