

JOSÉ DE JESÚS MENDOZA REYES

Backend Developer

Tlaxcala, Mexico

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Computer Science student at BUAP (GPA 9.18/10) with full-cycle experience: I built and deployed to production an HR management system with Django and PostgreSQL that Museo Amparo uses today, including its infrastructure (Nginx, systemd, CI/CD with GitHub Actions). I led the Go backend of a self check-in system for FEPRO 2026 in a team of five.

SKILLS

Backend	Python (Django, Django Ninja), Go (Gin, GORM), versioned REST APIs, JWT with JTI-based revocation
Data	PostgreSQL, MySQL, SQL, MongoDB, Cassandra, XML databases; migrations (golang-migrate, Django)
Infrastructure	Linux (Ubuntu/Debian servers; Arch desktop), macOS, Nginx, systemd, Gunicorn, CI/CD with GitHub Actions
Messaging	RabbitMQ, gRPC, Redis, Celery; asynchronous processing
Tools	Git, uv, Neovim; technical documentation (manuals, ADRs, CHANGELOG)

EXPERIENCE

Software Developer (Social Service)

Puebla, Mexico

Museo Amparo, IT Department

Jan – Jul 2026

- Built and deployed to production an HR management system with Django, Django Ninja and PostgreSQL, currently used by the HR department
- Designed a multi-app architecture (employees, records, catalogs, communication, requests) with a service layer and a custom authentication model
- Implemented a versioned REST API with JWT authentication and JTI-based token revocation; built a separate self-service frontend for employees
- Set up the production infrastructure (Gunicorn, Nginx, systemd) and the CI/CD pipeline with GitHub Actions on a self-hosted runner; administered an Ubuntu server running two production systems
- Built the document management module with PDF generation (WeasyPrint) and produced the technical documentation: manuals, server configuration, CHANGELOG and ADRs

PROJECTS

AUTO-nomía: self check-in for kiosks

Puebla, Mexico

Development Lead / Backend · Zero Devs team (FEPRO 2026)

2026

- Led backend development in Go (Gin, GORM) in a team of 5
- Implemented JWT authentication with two principal types (administrators and kiosk devices) and QR-based device provisioning
- Authored the technical proposal: a modular Go monolith with OCR (ML Kit), STT (Whisper.cpp), NLU (Rasa), TTS (Piper) and a local LLM (Llama 3 via Ollama)

Montecarlo System

Personal project · github.com/advantagelucky/Montecarlo-System

2025

- Distributed Monte Carlo simulation: a publisher fans out functions and scenarios via RabbitMQ, N consumers evaluate them safely via ast, and an aggregation monitor exposes a real-time dashboard over gRPC (Python, numpy)

Raíces: e-commerce for Mexican handicrafts

Academic project, BUAP · github.com/advantagelucky/Raices

2026

- Marketplace in Laravel 13 / PHP 8.4 (Blade, Vite): three roles (buyer, vendor, admin), cart and checkout with persisted orders, token-based password reset over email; deployed with Nixpacks

URM-Simulator

Personal project · github.com/advantagelucky/URM-Simulator

2025

- Unlimited Register Machine simulator: hand-written compiler (lexer + LL(1) recursive-descent parser), runtime with step-by-step tracing and infinite-loop protection, Tkinter GUI

EDUCATION

B.Sc. in Computer Science

Benemérita Universidad Autónoma de Puebla (BUAP)

Puebla, Mexico

2022 – 2027

- GPA 9.18/10 · Completed 480-hour social service at Museo Amparo · Intersession course: Neural Networks (2025)

CERTIFICATIONS AND AWARDS

Certification

Relational Database Administrator · Capacítate para el Empleo, Fundación Carlos Slim (2024)

Competitions

FEPRO 2026 (AUTO-nomía) · ICPC Mexico Grand Prix · Cocotrón 2023 (animatronics, BUAP)

Languages

Spanish (native) · English (B2)