

RONI HERNANDEZ

Backend & Generative AI Engineer

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SUMMARY

Dedicated Backend Developer with over 5 years of experience in Python and a strong background in designing, developing, and implementing distributed systems in microservices architectures. Expertise in the AWS ecosystem (including Lambda, API Gateway, SQS, SNS, EC2, ECR, Step Functions, CloudWatch) and in creating robust APIs (FastAPI, Django, gRPC, GraphQL) for high-load and mission-critical environments, particularly within the Fintech sector. Passionate about automation (CI/CD with GitHub Actions), code quality, and embracing emerging technologies like LLMs (RAG, LangChain) to drive innovation.

EXPERIENCE



Squad Leader, Backend Developer

Fairplay

📅 04/2022 - 05/2025

- Oversaw and maintained the integration project with Pomelo, an external provider that enables clients to use digital cards, ensuring smooth and secure transaction processes.
- Led the development of a solution for CNBV compliance in money laundering detection by integrating external services and enhancing system security and traceability.
- Established standards and best practices in gRPC services by designing private libraries and project templates to facilitate microservices adoption.



Backend Middle Developer

Fairplay

📅 02/2023 - 02/2024

- Member of the team that designed and built the company's new core banking system (valued at over 70 million MXN), overcoming challenges of efficiency, scalability, and complex production configurations.
- Designed and implemented a microservices orchestrator for the migration of the core system.
- Standardized API development with FastAPI, creating base classes, environment variable configurations, and reusable templates to enhance consistency and development speed.



Junior Backend Developer

Fairplay

📅 04/2022 - 02/2023

- Contributed to the monolithic system developed in Django.
- Developed and maintained crons on EC2 and Lambdas that managed critical backend processes.
- Implemented internal tools (private libraries and automated validators) to standardize development processes.



Co-founder

UNICONHUB

📅 11/2024

- Co-founded UniConHub, a community for young tech enthusiasts focused on creating an ego-free space for idea sharing and inspiration.
- Developed and maintained open-source templates with complete CI/CD environments (linters, testing, coverage, build, and deploy) for deployment on AWS using GitHub Actions, promoting best practices.
- Implemented GitHub Actions pipelines for automated testing in environments with replicated databases (PostgreSQL, MongoDB), showcasing coverage badges on public repositories.
- Deployed services on DigitalOcean with NGINX configurations, load balancing, custom domains, and security policies (UFW, Fail2Ban).

TECHNICAL SKILLS

Programming Languages			Python (5+ years)	
C	C++	Go (currently learning)		
Frameworks and Libraries			FastAPI	Django
Django REST Framework			Flask	pyQT5
AI & Machine Learning			Pandas	NumPy
Matplotlib		LangChain	TensorFlow	
Protocols and Tools		gRPC	GraphQL	
WebSocket	Webhooks		MQTT	RabbitMQ
OpenTelemetry	Git	GitHub	GitLab	
AWS Cloud		Lambda	API Gateway	
Step Functions		SQS	SNS	EC2
S3	CloudWatch	IAM		
DevOps	Kubernetes (currently learning)			
NGINX	Bash/Shell Scripting		GitHub Actions	
DigitalOcean		Docker	Docker Compose	
Databases		PostgreSQL	MongoDB	Redis
SQL				
Security		OAuth	JWT	

PROJECTS

Central Var RXD

🔗 https://github.com/ronihdzz/central_var_rxd

A CLI built in Python for encrypting and decrypting sensitive variables using GPG, facilitating their management in different environments for enhanced local security.

Telegram Connector

🔗 <https://github.com/ronihdzz/telegram-connector>

A comprehensive solution for integrating applications with Telegram bots, enabling bidirectional communication for sending and receiving messages.

EXPERIENCE



Programming Courses Instructor

UNAM Faculty of Engineering Academic Computing Services Unit

📅 06/2020 - 01/2022 📍 Mexico City

- Instructor and leader for courses on basic C programming, basic Python, and intermediate Python, training students in programming fundamentals and best practices.
- Designed course curriculums and teaching materials, facilitating the understanding of complex concepts and promoting practical projects.
- Managed laboratory infrastructure (installation and configuration of academic software), ensuring stable teaching environments.



AI Intern

BRAIN Artificial Intelligence

📅 05/2019 - 05/2020

- Received training in Machine Learning algorithms, participating in workshops on implementing supervised and unsupervised models.
- Co-led an internal software project for data collection, presenting progress and results to potential clients, highlighting communication skills and product vision.

KEY ACHIEVEMENTS



Finalist - Platzi Global Hackathon 2025 (Top 20 in LATAM)

Selected from over 1000 participants across Latin America to be part of the top 20 teams in the Platzi global Hackathon focused on revolutionizing education with artificial intelligence.



Winner - Swift Change Makers Hackathon 2024 (Monterrey, FEMSA)

Winning team with "OXXO LINK", a collaborative platform designed to optimize purchases at OXXO, recognized for its innovation and scalability.



Winner - NASA Space Apps Challenge 2023 (CDMX)

With the project "Death Sensors", we developed a network of LORA sensors for early detection of forest fires, creating hardware, a website, and a mobile app.



Speaker at CONACES Acapulco 2023

Collaborated with a team at a space event organized by the Mexican Space Agency, showcasing high-impact innovations and projects.



Guest Speaker — Telecommunications Congress, Faculty of Engineering, UNAM

Invited by Dr. Luis Francisco García Jiménez to deliver a talk on the Internet of Things, software development, and open-source projects as part of an academic conference series.

LANGUAGES

Spanish

Native



English

B1 - Intermediate



PROJECTS

Git Archive Action

🔗 <https://github.com/ronihdzz/git-archive-action>

A GitHub Action designed to store artifacts outside of the code history.

OpenTelemetry Microservices

🔗 <https://github.com/ronihdzz/opentelemetry-microservices>

A simple microservices project in Python for distributed average calculations, showcasing observability with OpenTelemetry and Jaeger.

Voice AI Assistant in Python

🔗 <https://github.com/ronihdzz/voice-ai-assistant-python>

An AI voice assistant for real-time phone conversations, built using Python, Twilio, and the OpenAI Realtime API.

CACPY

🔗 <https://github.com/ronihdzz/CACPY>

A GUI that automates the grading and feedback for programming assignments in Google Classroom.

Personal Website in Django

🔗 <https://github.com/ronihdzz/web-personal-django>

A personal website developed with Django, showcasing projects, experience, blog posts, and automated email functionalities to demonstrate full-stack skills.

IoT Home Automation

🔗 https://github.com/ronihdzz/IoT_domotica

An IoT home automation project that controls sensors and actuators, simulating an Alexa-like voice assistant by integrating hardware and software components.

CERTIFICATIONS

Google IT Automation with Python Professional Certificate (05/2021)

Google Career Certificates

Django for Everybody Specialization

University of Michigan

Python for Everybody Specialization

University of Michigan

Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

DeepLearning.AI

Neural Networks and Deep Learning

DeepLearning.AI

Improving Deep Neural Networks: Hyperparameter Tuning, Regularization, and Optimization

DeepLearning.AI

Structuring Machine Learning Projects

DeepLearning.AI