

RONI HERNANDEZ

Backend & Generative AI Engineer

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SUMMARY

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

EXPERIENCE

Fairplay

Squad Leader Backend Developer

Fairplay

04/2022 - 05/2025

- Supervised 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 regulatory compliance with CNBV in money laundering detection, integrating external services and enhancing system security and traceability.
- Implemented standards and best practices in gRPC services, designing private libraries and project templates to accelerate microservices adoption.

Fairplay

Middle Backend Developer

Fairplay

02/2023 - 02/2024

- Was part of the team that designed and built the company's new core banking system (valued at over 70M MXN), tackling efficiency, scalability, and complex production configurations.
- Designed and implemented a microservices orchestrator for the migration of the core system.
- Standardized API construction with FastAPI, creating base classes, environment variable configuration readers, and reusable templates that enhanced consistency and development speed.


Fairplay

Junior Backend Developer

Fairplay

04/2022 - 02/2023

- Contributed to the monolithic system developed in Django.
- Developed and maintained cron jobs on EC2 and Lambdas to manage 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 to share ideas and inspire one another.
- Developed and maintained open-source templates with complete CI/CD environments (linters, testing, coverage, build, and deploy) for AWS deployment using GitHub Actions, promoting best practices.
- Implemented GitHub Actions pipelines for automated testing in environments with replicated databases (PostgreSQL, MongoDB), displaying 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 (in progress)		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 tool built in Python for encrypting and decrypting sensitive variables using GPG, allowing management across different environments to enhance local security.

Telegram Connector

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

An all-in-one solution for integrating applications with Telegram bots, enabling real-time bidirectional communication for sending and receiving messages.

EXPERIENCE



Programming Course Instructor

UNAM Faculty of Engineering Academic Computing Services Unit

📅 06/2020 - 01/2022 📍 Mexico City

- Instructor and lead for basic C Programming, basic Python, and intermediate Python courses, teaching students programming fundamentals and best practices.
- Designed course outlines and educational materials, facilitating the understanding of complex concepts and promoting practical projects.
- Maintained lab infrastructure (installing and configuring academic software), ensuring stable teaching environments.



Artificial Intelligence 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, showcasing communication skills and product vision.

KEY ACHIEVEMENTS



Finalist - Platzi Global Hackathon 2025 (Top 20 LATAM)

Selected from over 1000 participants across Latin America to be part of the 20 finalist 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 to optimize shopping at OXXO, noted for innovation and scalability.



Winner NASA Space Apps Challenge 2023 (CDMX)

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



Speaker at CONACES Acapulco 2023

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

GitHub Action for storing artifacts outside of the code history.

OpenTelemetry Microservices

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

A simple microservices project in Python that computes an average in a distributed manner, demonstrating observability with OpenTelemetry and Jaeger.

Voice AI Assistant in Python

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

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

AWS Lambda FastAPI Template

🔗 <https://github.com/ronihdzz/aws-lambda-fastapi-template>

A professional template for creating serverless REST APIs using FastAPI, Docker, and AWS Lambda. It includes a modular architecture, real database testing, and complete CI/CD integration.

CACPY

🔗 <https://github.com/ronihdzz/CACPY>

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

Django Personal Website

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

A personal website developed in Django that showcases projects, experience, a blog, and automated email functionalities, demonstrating full-stack skills.

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 AI, 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