

Roni Hernandez

Back End Developer

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SUMMARY

Back End Developer with over 5 years of experience in Python, specializing in the design, development, and implementation of distributed systems within microservices architectures. Proficient in the AWS ecosystem (Lambda, API Gateway, SQS, SNS, EC2, ECR, Step Functions, CloudWatch) and skilled in 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. I aim to leverage my expertise to contribute to the design and development of secure and efficient backend solutions at TC-Tech, helping to shape the future of finance in Mexico.

EXPERIENCE

- Fairplay

Squad Leader Back-end 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 the solution for compliance with CNBV regulations in detecting money laundering, integrating external services and reinforcing the security and traceability of the system.
 - Implemented standards and best practices in gRPC services, designing private libraries and project templates to accelerate the adoption of microservices.
- Fairplay

Middle Backend Developer

Fairplay

02/2023 - 02/2024

 - Part of the team that designed and built the company's new core banking system (valued at over 70M MXN), tackling challenges of efficiency, scalability, and complex production configurations.
 - Designed and implemented a microservice orchestrator for migrating the core system.
 - Standardized the development of APIs using FastAPI, creating base classes, reading configurations from environment variables, and reusable templates, improving consistency and development speed.
- Fairplay

Junior Backend Developer

Fairplay

04/2022 - 02/2023

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

TECHNICAL SKILLS

Programming Languages		Python (5+ years)	
C	C++	Go (in progress)	
Frameworks and Libraries		FastAPI	Django
Django REST Framework		Flask	gRPC
GraphQL	WebSocket	Webhooks	
OpenTelemetry		Bash/Shell scripting	
Databases	PostgreSQL	MongoDB	Redis
SQL			
AWS Cloud	Lambda	API Gateway	
Step Functions	SQS	SNS	EC2
ECR			
S3	CloudWatch	IAM	
DevOps		Docker	Docker Compose
Kubernetes (in progress)		DigitalOcean	
NGINX	UFW	Fail2Ban	
Security		OAuth	JWT

PROJECTS

- Central Var RXD

github.com/ronihdz/central_var_rx

A Python CLI tool that encrypts/decrypts sensitive variables using GPG and manages them across different environments, enhancing security for deployments.
- AWS Lambda FastAPI Template

github.com/RoniHernandez99/miWebPersonal

An open-source template utilizing GitHub Actions for the automated deployment of Lambdas as APIs with a reverse proxy on AWS, incorporating CI/CD (linter, tests, coverage, build, and deploy).
- My Personal Website

github.com/RoniHernandez99/miWebPersonal

A Django-based website showcasing projects, experience, a blog, and automated email functionalities, demonstrating full-stack capabilities.

EXPERIENCE

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 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 in public repositories.
 - Deployed services on DigitalOcean with NGINX configurations, load balancing, custom domains, and security policies (UFW, Fail2Ban).

Programming Courses Instructor
UNAM Faculty of Engineering Academic Computing Services Unit

- 06/2020 - 01/2022 Mexico City
- Instructor and leader of courses in basic C programming, basic Python, and intermediate Python, training students in programming fundamentals and best practices.
 - Designed the syllabus and teaching materials, facilitating the understanding of complex concepts and promoting practical projects.
 - Maintained lab infrastructure (installation and configuration of 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 focused 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 LATAM)**
Selected from over 1,000 participants across Latin America to be part of the top 20 finalist teams at the Platzi Global Hackathon, focused on revolutionizing education with artificial intelligence.
- Winner - Swift Change Makers Hackathon 2024 (Monterrey, FEMSA)**
Part of the 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 LORA sensor network for the early detection of forest fires, creating hardware, a website, and a mobile app.
- Speaker - CONACES Acapulco 2023**
Participation alongside the team at a space event organized by the Mexican Space Agency, presenting innovations and high-impact projects.

PROJECTS

IoT Home Automation Project with Desktop GUI
github.com/RoniHernandez99/IoTdomotica
A Python desktop application designed to control sensors and actuators, simulating an Alexa-like voice assistant, integrating hardware and software components.

Automatic Programming Assignment Grader (CACPY)
github.com/RoniHernandez99/CACPY
A GUI that automates grading and feedback for programming assignments on Google Classroom.

LANGUAGES

Spanish
Native

English
B1 - Intermediate

FIND ME ONLINE

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