

Miguel Herize

Chile

Phone number: +569 56052252

E-mail: migherize@gmail.com

LinkedIn: <https://www.linkedin.com/in/miguel-herize-267764179/>

GitHub: <https://github.com/migherize>

Portafolio: <https://portafolio-frontend-ecru.vercel.app/MiguelHerize>

Python Developer | Machine Learning Engineer

Python Developer and Machine Learning Engineer with a degree in Systems Engineering and over **5 years** of experience in **backend development, data engineering, and machine learning** across **e-commerce, fintech, and media streaming sectors**. Demonstrated achievements in **sentiment analysis, risk assessment, revenue analytics, and image classification**, leveraging **Python, AWS, Docker, and cloud-based architectures**. Supervised **cross-functional teams**, optimizing **data pipelines, API development, and cloud infrastructure**. With a strong focus on scalable, high-performance solutions.

Work Experience

Python Software Engineer at IA Interactive

Mar 2023 to date

- Implemented and managed Docker containers to ensure portability and consistency across environments.
- Developed scalable web services using FastAPI, integrating GraphQL for client-server communication.
- Designed messaging workflows with Kafka and validated data models using Pydantic to ensure quality and consistency.
- Integrated AWS services (S3, Lambda, DynamoDB, ECS, CloudWatch, Secrets Manager) to build a reliable and monitored cloud infrastructure.

Main Technologies: Python, FastAPI, GraphQL, Kafka, Pydantic, Docker, AWS.

Backend Developer at Lodgerin

Nov 2024 to Apr 2025

- Developed Python/FastAPI microservices for Lodgerin, automating web scraping of rental listings in Spain with scheduled re-execution for continuous updates.
- Worked with relational and NoSQL databases, optimizing SQL queries, and ensuring efficient data handling.
- Applied clean code practices, unit testing, and scalable architecture in a fully remote, collaborative environment.

Main technologies: Python, FastAPI, SQL, NoSQL, Git.

AI Trainer – Scale AI / Outlier

May 2024 to Oct 2025

- Designed and tested diverse prompts to train AI models, ensuring coverage of intended use cases.
- Validated code and AI-generated responses in Python, HTML, C, C++, and JavaScript to ensure technical quality and accuracy.
- Contributed to improving machine learning models' performance through evaluation, feedback, and targeted enhancements.

Main technologies: Python, HTML, C, C++, JavaScript, Java, SQL, Swift, .NET.

Backend Developer at Kukun Inc.

Mar 2022 to Mar 2023

- Design and develop APIs using frameworks like Django and FastAPI with Python.
- Implement GitFlow methodology to establish a structured branching model and a continuous integration process, ensuring clean and organized code.
- Create and optimize database processes using MySQL and PostgreSQL.
- Define Docker microservices requirements, including unit testing, documentation, installation, and architectural diagrams (object, sequence, and usage) to enhance collaboration, quality, maintenance, and performance.
- Develop and automate complex workflows in Apache Airflow for web scraping tasks, integrating Apache Kafka for efficient messaging and data processing.

Main Technologies: Python, Django, FastAPI, GitFlow, Docker, Apache Airflow, Apache Kafka, MySQL, PostgreSQL.

Data Engineer at KuKun Inc.

Mar 2021 to Mar 2022

- Extract web data using Python web scraping tools such as Selenium, Scrapy, and BeautifulSoup.
- Efficiently manipulate and analyze data using Python, Pandas, and regular expressions.
- Implement string comparison algorithms based on 'FuzzyWuzzy' to calculate similarity between two strings and identify matches across databases.

Main Technologies: Python, Selenium, Scrapy, Pandas.

Projects

- TidyTasks is a platform for personal task management, designed to be simple. ([Project link](#))
- This microservice is a web scraper to extract information from the top movies on IMDb. ([Project link](#))
- Web scraping microservice for rentals in Spain using FastAPI. ([Project Link](#))
- Airflow-based Monitoring for Automated Web Scraping. ([Project link](#))
- Web Scraping of Madrid Tourism Website using Scrapy, Docker, and MongoDB. ([Project Link](#))
- API for a Magic Academy System, enabling basic CRUD operations and login registrations. ([Project Link](#))

Skills

Tech Skills: Python, Django, FastAPI, Scrapy, Selenium, Docker, Java, Spring Boot, GraphQL, Kafka, Apache Airflow, AWS (S3, Lambda, ECS, DynamoDB, Secrets Manager, CloudWatch), MongoDB, MySQL, PostgreSQL, Dynatrace, React, Vue, JavaScript, TypeScript, HTML, CSS, Node.js, Git, Jenkins, Postman.

Languages: Spanish C1, English B1.

Education

Universidad de los Andes

2014 to 2022

Systems Engineering

Anyone AI

2024 to 2025

Machine Learning Developer Career

Python Institute

Jan 2025

PCAP – Certified Associate in Python Programming