

Joan Sebastian Fuertes Garcia

Automation Engineer • Python developer • AWS

Profile

Backend Python Developer with experience building and maintaining scalable, cloud-native services within AWS serverless architectures. Strong background in API development using FastAPI and Flask, ETL processes, and backend optimization.

Actively involved in designing business logic alongside stakeholders and translating requirements into maintainable backend solutions. Experienced with AWS Lambda, Step Functions, CI/CD workflows, and collaborative development using Git Flow. Familiar with frontend technologies such as React and Next.js, and comfortable working in Agile (SCRUM) environments. Experienced with various database systems including SQL databases (PostgreSQL, BigQuery) and NoSQL solutions (ArangoDB).

Experience

Backend Python developer - Neostella

January 2025 – Present

Currently working as a Backend Python Developer on the company's core product, a CRM for legal case management in the United States. Actively involved in the design, development, and maintenance of scalable backend services within an AWS serverless ecosystem, while also contributing to other projects related to data governance and third-party application integrations.

- Developed and maintained backend services using AWS Lambda and related AWS services to support high-availability, event-driven architectures, while assisting in the construction of GitHub Actions for CI/CD workflows.
- Designed and orchestrated workflows using AWS Step Functions, improving reliability and traceability of complex backend processes.
- Help establish and standardize a proper Git Flow strategy across the team, improving collaboration, code quality, and release management.
- Contributed to the design of a custom query language for graph databases and participated in the definition of business logic with stakeholders, translating requirements into scalable backend solutions.

More about me

📍 Bogotá, Colombia

Email jsfuertesdev@gmail.com

Phone: +57 3008268737

 [LinkedIn](#)

RPA Certifications

[Bot builder Rocketbot](#)

[Automation Anywhere Certified](#)
[Advance RPA Profesional](#)

Languages:

Spanish native

English fluency

Portfolio:

[Sebastian Fuertes - portfolio](#)

Backend Python developer - EY (Ernst & Young)

March 2023 – January 2025

Worked in the payroll sector of the company, involved in creating a wide range of backend services encompassing ETL, API integrations, and frontend and backend enhancements to improve website performance.

- Designed and implemented a comprehensive end-to-end ETL process from APIs, incorporating over 20 business rules and helping pipeline creation in Azure Devops.
- Automated ETL for transferring data into specific templates, streamlining information handling.
- Conducted proof of concept for an AI assistance tool for an internal website.
- Optimized the performance of an internal website, reducing database calls by 30% by retrieving information only when necessary.
- Migrate an internal website to React to optimize it by about 30%.

RPA / automation developer - Trycore

July 2022 – March 2023

I worked as an Automation RPA Developer with multiple RPA-based technologies such as Automation Anywhere, Rocketbot, and Selenium. I was involved in integrations with different databases SQL and NoSQL.

- Automated a process using JavaScript when automation with an RPA tool was not feasible
- Developed a full end-to-end RPA automation process for websites linked with G-suite using AppScripts.
- Automated internal project documentation with JavaScript, enabling faster information sorting and improving documentation time by 20%.
- Utilized Python to enhance data frame automation using Pandas, resulting in a transition away from RPA tools for this purpose.

Customer Service Support – EXL Colombia

Customer service, assisting individuals with their health insurance accounts by troubleshooting via phone and website, basic SQL and Python programming

Education

Mechatronic Engineering

Universidad ECCI, Bogotá D.C | October 28 2022

Associate degree in Automation and Industrial Robotics

Universidad ECCI, Bogotá D.C | September 10, 2021

ADDITIONAL EDUCATION

- MACHINE LEARNING, DATA ANALYTICS AND CLOUD COMPUTING WITH APPLICATIONS IN AUTOMATION AND ROBOTICS| Universidad ECCI, Bogotá D.C | September 10, 2021

Moreover, I have completed several technical courses and obtained certificates. I am eager to share my comprehensive learning journey with you. Please do not hesitate to request a detailed list of my educational background.