

# Jaime Salazar Lahera

Senior Backend Programmer with **5+ years of experience** implementing backends and automating a variety of business needs. Focused on **programming best practices and process improvement**, providing skills crafted in an international context.

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## Professional Experience

**Senior Backend Programmer** Responsible for 4 people  
Alten Spain *Madrid, Spain*

January 2023 - Present

Development of **Dockerized Azure Functions (Python)** for the client with **Artificial Intelligence on Azure** for the processing of subsidies

Leadership of the team after the parental leave of our Team Lead

Implementation of the end-to-end process

Document classification and data extraction: **Azure Document Intelligence, Azure Custom Vision, Azure OpenAI**

Extensive use of **Pydantic** and customization of its internal behavior

HTTP- and Queue-triggered functions (**Azure Storage Queues**)

Document and data storage: **Azure Blob Storage, Azure CosmosDB**

RAG-based chatbot: **Azure AI Foundry, Azure AI Search, Langchain**

CI/CD with **Azure DevOps** and **pytest**

Monolith migration to microservices: **Bitbucket**, libraries with **uv** and **AWS CodeArtifact**, IaC (**Terraform**)

### Backend development for the client's **Django** app

Feature improvements, bug fixes, code cleanup

Multimedia content management in **AWS S3**

Extensive use of **pydantic, celery**, and **pytest**

Creation of **DRF** endpoints

Downloading from an **SFTP** server

Regular use of **gitlab pipelines, kubernetes**, and **DevContainer**

Jira and Confluence

### Backend and (some) frontend development for the client's website apps

**ExpressJS (TypeScript)** and **Ionic Vue**

CI/CD with GitHub Actions and Codemagic.io

### Business process automation

Maintained **UiPath** bots

Pioneered **Robocorp (Python)** in the client, managed workers and Control Room

**Web automation** with Playwright: **digital certificates** (RedTrust), forms and download/upload of files in government websites and client's CRM

Desktop automation: Java-based apps for digital certificates (AutoFirma)

Email and Slack automation for **reports and alerts**

CI/CD: **GitHub Actions** pipeline including testing and deployment to Robocorp's Control Room

Some basic Terraform tasks

Setting up an Automations CoE and a Governance Service: development of **internal libraries, tools, and templates**, monitoring, and mentoring

## RPA Programmer Analyst

John Bean Technologies *Madrid, Spain*

January 2021 - January 2023

**Business process automation** and **data delivery** for financial departments with **Python, Blue Prism, Power Automate/Apps**, and Tableau

Automation within the Office suite with **Microsoft Graph API**

Web automation: document upload/download to and from ERPs, online forms, and dashboards

Email automation: send/receive emails with attachments, images

Data delivery with Tableau for KPI reports and dashboards

Excel automation and Office Scripts

**Deployment** and maintenance of bots

App creation (forms, DB storage) with Power Apps

Requirements gathering and project delivery

## RPA Developer

EDP Spain *Madrid, Spain*

November 2019 - December 2020

Back office automation with **UiPath** and **Python**

Document batch generation (Excel, PDF), **web scraping** (selenium, scrapy, beautiful soup, requests), and desktop automation (pyautogui)

## Backoffice Technician

Solar Solution, LLC *Washington, DC, USA*

June 2013 - June 2015

Document automation (JavaScript, VBA) and pipeline management (VBA)

## Academic Experience

### Master's Degree in Electromechanical Engineering

Polytechnic University of Madrid (UPM) *Madrid, Spain*

September 2016 - February 2019

Master's Thesis - Autonomous Agricultural Robot

Prototyping with Arduino, Raspberry Pi, Flask, and MongoDB

PLC programming, NI LabView graphical programming, MATLAB

Electrical and mechanical simulation with Festo FluidSIM, QUCS, and SAM

## **Undegraduate Courses**

Polytechnic University of Madrid / Montgomery College *Madrid, Spain / Maryland, USA*

January 2014 - June 2016

Introductory subjects in electronic engineering

## **Bachelor's Degree in Environmental Science**

University of Maryland, College Park *Maryland, USA*

September 2011 - December 2013

Graduated \_cum laude\_

Minor in Ecological Technology Design and Geographic Information Systems (GIS)

## **Associates's Degree in Environmental Science and Policy**

Montgomery College *Maryland, USA*

January 2010 - May 2011

2 year degree as a midpoint towards the Bachelor's Degree

## **Bachelor's Degree in Forestry Engineering**

Polytechnic University of Madrid *Madrid, Spain*

October 2007 - June 2009

First 2 years of the degree before transferring to USA

## **Skills**

### **Programming languages and software**

- **Python: Django**, FastAPI, playwright, Robocorp, etc.
- **Docker**, CI/CD, IaC (Azure, AWS)
- **TypeScript/JavaScript**, MS Office Scripts

### **Native-level English**

**Native-level English** due to an academic career and professional experience abroad

## **Projects**

## **CV**

This site was developed with Tanstack, Vite, and React. It converts markdown files to html and uses pdfMake to create the downloadable PDF version of this site.

## **Django**

Dockerized Django app leveraging django-ninja and HTMX for a crypto trading bot. A DevContainer sets up via docker compose a few services such as:

- Auth with `django-allauth`, including Google OAuth
  - Background workers with `django-tasks` (migrated from Celery)
  - PostgreSQL for storing its configuration and orders placed
  - Chat via websockets (`django-channels`) with Groq and Ollama
- Dependency management with `uv` and CI/CD with GitHub Actions and `pytest`.