

# Raúl Ávila Carbajal

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Barcelona, Spain | +34 603 628 660 | raul.avila.carbajal@gmail.com | LinkedIn: [www.linkedin.com/in/raul-avila-carbajal](https://www.linkedin.com/in/raul-avila-carbajal) | GitHub: <https://github.com/raul0084> | racventure.com

## Professional Summary

Data-driven engineer with experience in consulting-oriented tech roles, specializing in analytics, database engineering, automation, and geospatial analysis. Skilled in Python, SQL, and dashboarding, with strong problem-solving abilities and cross-functional communication. Adept at designing scalable data solutions and supporting business decision-making through quantitative insights.

## Core Skills

- Python (pandas, numpy, scikit-learn)
- SQL (MySQL, PostgreSQL)
- GIS & Geospatial Analysis
- Power BI & Data Visualization
- JavaScript, HTML, CSS (foundational)
- MATLAB
- Data Pipelines & Automation
- Analytical Problem-Solving

## Professional Experience

### Tech Lead - Alpha Impact 8 Ventures (Remote)

May 2024 - March 2025

- Designed and deployed a consulting-oriented investment analytics platform integrating a centralized SQL database to streamline evaluation of clients, pipeline, and portfolio companies.
- Implemented automated data flows and reporting structures supporting strategic decision-making and operational efficiency.
- Collaborated with multidisciplinary teams to translate business needs into technical architecture and data tools.

### Associate - Alpha Impact 8 Ventures (Remote)

March 2023 - April 2024

- Developed financial models, automated reporting, and data-driven workflows used by internal consulting teams.

- Built SQL-based investor data systems improving accessibility, governance, and operational transparency.

### **R&D Assistant Development Engineer - Signify, Monterrey**

Jan 2023 - Mar 2023

- Analyzed performance metrics and laboratory results to support engineering decisions.

- Developed scripts and macros to streamline testing workflows and reduce manual processing time.

### **Additional Internships - Signify & AgileThought**

2021 - 2022

- Supported engineering and software teams in data analysis, experimentation, and reporting tasks.

## **Education**

### **Master's in Water Science and Management - Universitat de Barcelona**

Thesis: ML-Driven Land-Use Classification with Super-Resolved Sentinel-2 Imagery.

### **B.S. Industrial Physics Engineering - Tec de Monterrey**

Academic Talent Scholarship.

## **Languages**

- Spanish (Native)

- English (Advanced -TOEFL 112/120)

- German (Intermediate - B1)

- Catalan (Intermediate - A2)