

# Juan Manuel Berros

Python Software Engineer & Data Scientist | Buenos Aires, Argentina

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## Professional Experience

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**Grata Inc.** | Deal sourcing platform

New York, USA

Data Analyst & Back-end Software Engineer

Jul 2022 - Feb 2023

- Built a Django back-end module to **score and clean up** a database of **10m company names**. The quality of the names increased from 6 to 9.8 after this intervention, as measured by a team of data raters.
- Built a Django back-end module to **score geocoding results** from Geocode Earth and Mapbox. This scoring was integrated into the ingestion pipeline to decide when to call the Mapbox API.

Technologies: Django, pandas, Jupyter, docker-compose, AWS, Mapbox, Geocode Earth, MySQL, Redis

**Biocodices Inc.** | Medical genomics laboratory

Buenos Aires, Argentina

Data Scientist & Data Engineer

Dec 2018 - Jul 2022

- Built an **ETL workflow of genetic data** in Python Luigi (similar to Airflow). It performed data collection, quality assurance, various filters, and generation of reports for +2500 embryos.
- Completed a thesis on the **statistical properties of genetic scores** of disease propensities in adults, and of chromosome anomalies in embryos. This years-long project involved experiment design, simulation of thousands of genomes, and iteration over hundreds of parametrizations in an on-premises HPC cluster.

Technologies: Python, Luigi, Pandas, NumPy, Matplotlib, Seaborn, SciPy, Sci-kit Learn, Jupyter, MySQL, Redis

Full-stack Ruby on Rails Developer

May 2016 - Dec 2018

- Built an internal **LIMS software** (Laboratory information management system) in Ruby on Rails to inventory lab samples, display daily stats, and generate PDF reports to communicate genetic results to patients.

Technologies: Ruby on Rails, PostgreSQL, Redis, HTML, CSS, jQuery

**Pemasys Inc.** | Human resources software

Buenos Aires, Argentina

Full-stack Ruby on Rails Developer

Nov 2012 - Apr 2015

- Built a Ruby on Rails **dashboard** to display daily profits of **AdWords/AdSense campaigns** in 10 countries.
- Maintained a **Ruby on Rails-based ads aggregator** of thousands of cars, apartments, and job ads.

Technologies: Ruby on Rails, jQuery, HTML, CSS3, Sass, MySQL, Redis

## Education & Skills

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- **PhD in Bioinformatics** | University of Buenos Aires | 2017–2022
- Specialization in **Statistics & Data Science** | University of Buenos Aires | 2017–2019
- BSc in Biology | CAECE University | 2011–2016

Languages: proficient with **Python** and **Ruby**, experienced with HTML, CSS, Javascript

Tools: Django, Flask, Pandas, Matplotlib, Jupyter, AWS, Docker, MySQL, Redis, Ruby on Rails, jQuery

### Online Courses

- **AWS Cloud Practitioner** | Udemy | In progress
- **Deep Learning** and **Natural Language Processing** Specializations | Coursera | 2023 ([cert 1](#), [cert 2](#))