

# Curriculum Vitae

Josep Andreu Sabaté

Date of birth: 21-05-1995

DNI: 50.388.514-E

Address: Carrer radas, Barcelona

Phone: 639911831

E-mail: josepandreu995@gmail.com

Git-hub: <https://github.com/JosepAnSabate>

## Professional experience

### Aistech Space s.l.

Geospatial software developer

Castelldefels, Catalunya

2/9/2020 - 1/12/2020

Master's degree project agreement. "Identificació i evolució de canvis en un projecte miner" (Identification and evolution of changes in a mining project), through machine learning using Google Earth Engine in JavaScript code.

---

### JPF Consultores

Montblanc, Catalunya

2020

Studies on the October floods at the Conca de Barberà (Tarragona), with Mr. Jordi Pujades, an expert hydrogeologist, 2020.

---

### Blancos de Aragón s.l - Belxical s.l.

Participation in the geological cabinet.

Belchite, Aragón

2015 - 2018, 186 days

- Preparation and processing of geological and environmental reports.
  - Mapping of limestone and dolomite deposits.
- 

### Celler Carles Andreu s.l.

Pira, Catalunya

2/2021

20/7/2019 - 5/9/2019

Working on different parts of the production prc

2/10/2018 - 24/12/2018

---

## Education

- Master's degree in Remote Sensing and Geographical Information Systems (GIS), Universitat Autònoma de Barcelona (UAB). 60 etcs, 2020.
- Bachelor's degree in Geology, Universitat Autònoma de Barcelona (UAB), 2019.

## Technical Expertise

- Most used programming languages: Python, JavaScript, R.
- Python libraries: Pandas, Matplotlib, NumPy, Geopandas, GDAL, Plotly, Ipyleaflet, Folium, xarray, rioxarray, rasterio, Fiona, Pyqgis.
- Nodejs using the dependencies: Express, ejs, pg(postgres-postgis), mongoose(MongoDB), GeoJson.
- Web map APIs: Mapbox GL, Leaflet, OpenLayers, here, Turf.
- Geoserver for sharing geospatial data using the OGC standards.
- Software for database management system (DBMS): PostgreSQL (Postgis), My SQL, MongoDB.
- Docker, AWS(EC2, Route53), NGINX.
- Software and web applications GIS: QGIS, ArcGis, GoogleEarthEngine, AutoCAD, MiraMon, Instamaps.
- Software for remote sensing: ENVI, BILKO, SNAP.
- Software for data visualization: Tableau.
- Linux and Windows user.
- MsOffice: Excel, Word, PowerPoint.

## Certificates

- Web development programming course by Aulab (11 weeks, 28 hours per week of live and online classes), 2021.
  - Frontend => HTML, CSS, Javascript, Bootstrap.
  - Backend => MySQL, PHP, Laravel.
  - Tools to facilitate teamwork => Git, GitHub, Slack, Trello, Agile Methodologies.
- Spatial databases: PostGIS (Postgres) and pgRouting by MappingGIS (100 hours), 2021.
- Introduction to Python programming for geologists by ICOG, 2021.

- Using R as a GIS, by MappingGIS (80 hours), 2020.
- ArcGIS specialist course applied to geology and mining by TYCGIS (140 hours), 2020.
- QGIS course in remote sensing techniques applied to geology by INGEOEXPERT (50 hours), 2020.
- AutoCAD course by ICOG, 2021.
- Copernicus for raw materials, by RawMatCop Academy, 2021.
- Satellite observations and Tools for Fire Risk, Detection and Analysis by ARSET, 2021.
- Miramon course by CREAM (16 hours), 2019.

## Languages

English: spoken and written.

Catalan: native level.

Spanish: native level.

## Additional

- Available to travel abroad.
- Driving license B.
- ICOG member.

## Projects

Geo-locations, Node Js-Postgresql-Leaflet. Hosted on AWS.
<a href="https://github.com/JosepAnSabate/Geo-App">https://github.com/JosepAnSabate/Geo-App</a> <a href="https://visualatles.cat/">https://visualatles.cat/</a>
Cursa Espluga de Francolí, Node Js-Mapbox GL. Hosted on AWS.
<a href="https://github.com/JosepAnSabate/Mapes-cursa">https://github.com/JosepAnSabate/Mapes-cursa</a> <a href="https://geoatles.com/">https://geoatles.com/</a>
Geospatial blog, Node Js. Hosted on Heroku.

<a href="https://geomaps-blog.herokuapp.com/">https://geomaps-blog.herokuapp.com/</a>
Address locations, Node Js-Mongodb.
<a href="https://github.com/JosepAnSabate/Address-location">https://github.com/JosepAnSabate/Address-location</a>
QGIS plugin.
<a href="https://github.com/JosepAnSabate/Diversity-Calculator">https://github.com/JosepAnSabate/Diversity-Calculator</a>
Vaccination data Catalunya matplotlib and plotly using Python.
<a href="https://github.com/JosepAnSabate/blog_post_vac">https://github.com/JosepAnSabate/blog_post_vac</a>
<a href="https://geomaps-blog.herokuapp.com/blog2">https://geomaps-blog.herokuapp.com/blog2</a>
Real time Covid19 map using React, leaflet, bootstrap.
<a href="https://github.com/JosepAnSabate/React_leaflet_bootstrap_Realtime_Covid19_Map">https://github.com/JosepAnSabate/React_leaflet_bootstrap_Realtime_Covid19_Map</a>
Detecting Iron-bearing minerals with Sentinel-2 using GEE JavaScript.
<a href="https://josepandreu995.users.earthengine.app/view/iaf-sentinel-2">https://josepandreu995.users.earthengine.app/view/iaf-sentinel-2</a>
Code:
<a href="https://code.earthengine.google.com/74bcd5daa192d23387a486260c3a248a">https://code.earthengine.google.com/74bcd5daa192d23387a486260c3a248a</a>